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UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF DENTISTRY

Announcement for 1937-1938



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UNIVERSITY OF ILLINOIS

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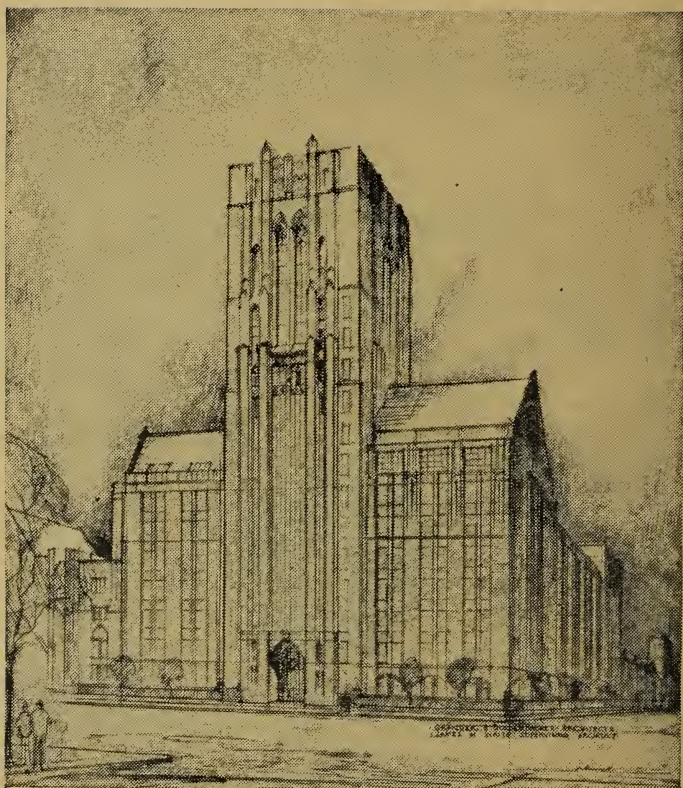
COLLEGE OF DENTISTRY

Announcement for
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JUL 29 1937
UNIVERSITY OF ILLINOIS

808 SOUTH WOOD STREET
CHICAGO, ILLINOIS
1937



THE SECOND UNIT OF THE MEDICAL AND DENTAL COLLEGE
LABORATORIES BUILDING, WHICH WILL HOUSE THE
COLLEGE OF DENTISTRY AFTER OCTOBER 1, 1937

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COLLEGE CALENDAR

1937

First Semester

Sept. 20-25, Monday-Saturday.....Special examinations.
Sept. 27, Monday, 8 A.M. to 5 P.M.:...Registration and payment of fees.
Sept. 28, Tuesday, 8 A.M.....Instruction begun.
Nov. 25, Thursday.....Thanksgiving Day.
Dec. 18, Saturday, 5 P.M.....Holiday recess begun.

1938

Jan. 3, Monday, 8 A.M.....Instruction resumed.
Jan. 27, Thursday.....Examinations begun.

Second Semester

Feb. 7, Monday, 8 A.M. to 5 P.M.....Registration and payment of fees.
Feb. 8, Tuesday, 8 A.M.....Instruction begun.
April 14, Thursday, 5 P.M.....Easter recess begun.
April 18, Monday, 8 A.M.....Instruction resumed.
May 25, Wednesday.....Examinations begun.
May 30, Monday.....Memorial Day.
June 8, Wednesday.....Class day and alumni meeting.
June 10, Friday.....Commencement exercises.

Summer Session

June 13, Monday.....Summer courses begun.
Sept. 24, Saturday.....Summer courses ended.

UNIVERSITY OF ILLINOIS BOARD OF TRUSTEES

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(Term 1937-1943)

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NELL SNOW TALBOT, A.M., *Assistant to the Dean*

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Awards.—F. B. MOOREHEAD (Chairman), V. T. NYLANDER, I. SCHOUR.

Classification.—W. H. WELKER (Chairman), J. S. KELLOGG, V. T. NYLANDER, S. D. TYLMAN, NELL S. TALBOT, R. G. KESEL.

Curriculum and Catalog.—NELL S. TALBOT (Chairman), J. S. KELLOGG, V. T. NYLANDER, S. D. TYLMAN, R. G. KESEL.

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Exhibits.—E. J. KREJCI (Chairman), R. G. KESEL, R. A. JENTZSCH.

Student Council.—W. H. KUBACKI (Chairman), NELL S. TALBOT (Secretary), R. L. LADD.

FACULTY OF THE COLLEGE OF DENTISTRY

1936-37

Professors

- FREDERICK BOGUE NOYES, A.B., D.D.S., D.Sc., *Professor of Orthodontia, Head of the Department, Director of the Children's Clinic, and Dean of the College of Dentistry*
- DONALD MACKAY GALLIE, D.D.S., *Professor of Clinical Operative Dentistry, Emeritus*
- FREDERICK BROWN MOOREHEAD, D.D.S., M.D., M.S., *Professor of Oral Surgery and Head of the Department of Oral and Plastic Surgery and Oral Pathology*
- GEORGE WALTER DITTMAR, D.D.S., *Professor of Clinical Prosthetic Dentistry and Head of the Department of Prosthetic Dentistry*
- DAVID JOHN DAVIS, M.D., Ph.D., *Professor of Pathology, Head of the Department of Pathology, Bacteriology, and Public Health, and Dean of the College of Medicine*
- JULIUS HAYES HESS, M.D., *Professor of Pediatrics and Head of the Department in the College of Medicine*
- HUGH ALISTER MCGUIGAN, Ph.D., M.D., *Professor of Pharmacology, Materia Medica, and Therapeutics and Head of the Department in the College of Medicine*
- LOUIS SCHULTZ, D.D.S., M.D., *Professor of Oral Surgery and Pathology, Emeritus*
- WILLIAM HENRY WELKER, A.C., Ph.D., *Professor of Physiological Chemistry and Head of the Department of Chemistry and Metallurgy*
- FRANCIS EUGENE SENEAR, B.S., M.D., *Professor of Dermatology and Head of the Department in the College of Medicine*
- WILLIAM F. PETERSEN, B.S., M.D., *Professor of Pathology*
- ADOLPH HARTUNG, M.D., *Professor of Roentgenology*
- ALBERT BACHEM, Ph.D., *Professor of Biophysics*
- OTTO FREDERIC KAMPMEIER, Ph.D., M.D., *Professor of Anatomy and Head of the Department*
- ROBERT WOOD KEETON, M.S., M.D., *Professor of Medicine and Head of the Department*
- LLOYD ARNOLD, A.M., M.D., *Professor of Bacteriology and Public Health*
- ALLAN GIBSON BRODIE, D.D.S., M.S., *Professor of Orthodontia*
- JOHN SANFORD KELLOGG, D.D.S., *Professor of Prosthetic Dentistry and Director of the Prosthetic Infirmary*
- WACLAW HOWARD KUBACKI, D.D.S., *Professor of Prosthetic Dentistry*
- VICTOR THEODORE NYLANDER, A.B., D.D.S., *Professor of Operative Dentistry, Acting Head of the Department, and Director of the Infirmary*
- STANLEY DANIEL TYLMAN, D.D.S., M.S., *Professor of Prosthetic Dentistry*
- ERNST GELLHORN, M.D., Ph.D., *Professor of Physiology*
- WALTER JOHN RICHARD CAMP, M.D., Ph.D., *Professor of Pharmacology, Materia Medica, and Therapeutics*
- ISAAC SCHOUR, D.D.S., Ph.D., *Professor of Histology*
- GEORGE E. WAKERLIN,¹ Ph.D., M.D., *Professor of Physiology and Head of the Department*

Associate Professors

- OLAF BERGEIM, Ph.D., *Associate Professor of Physiological Chemistry*
- ISADORE PILOT, B.S., M.D., *Associate Professor of Medicine and of Pathology*

¹Beginning September 1, 1937.

SAMUEL AZOR LEVINSON, M.S., M.D., *Associate Professor of Pathology, Assistant Professor of Medicine, and Director of the Hospital Laboratory*
ALEXANDER JOHN NEDZEL, M.D., M.S., *Associate Professor of Bacteriology and Public Health*
MAX SAMUEL WIEN, B.S., M.D., *Associate Professor of Dermatology*
HENRY GEORGE PONCHER, B.S., M.D., *Associate Professor of Pediatrics*
CARLOS ISAAC REED, Ph.D., *Associate Professor of Physiology*
GERHARDT VON BONIN, M.D., *Associate Professor of Anatomy*

Assistant Professors

ROBERT LEON LADD, M.S., M.D., *Assistant Professor of Oral Pathology*
ROBERT GEORGE KESSEL, D.D.S., M.S., *Assistant Professor of Dental Pathology and Therapeutics*
ARTHUR GIDEON COLE, Ph.D., *Assistant Professor of Physiological Chemistry*
NELL SNOW TALBOT, A.M., *Assistant Professor of Medical and Dental History, and Assistant to the Dean of the College of Dentistry*
YNGVE JORANSON, A.B., B.S., M.D., *Assistant Professor of Anatomy*
GEORGE MILLES, Ph.G., M.S., M.D., *Assistant Professor of Pathology*
ELSIE GERLACH, D.D.S., *Assistant Professor of Operative Dentistry and Superintendent of the Children's Clinic*
EDWARD JOHN KREJCI, D.D.S., *Assistant Professor of Operative Dentistry, and Examiner in the Infirmary*
GUSTAV LEOPOLD ZECHEL, M.D., *Assistant Professor of Anatomy, and Associate in Surgery*
LOUIS WILLIAM SCHULTZ, B.S., D.D.S., M.D., *Assistant Professor of Oral Surgery*
WILLIAM BENHAM DOWNS, D.D.S., M.S., *Assistant Professor of Orthodontia*

Associates

EDWARD CHARLES WACH, Ph.G., D.D.S., *Associate in Dental Pathology and Therapeutics*
PAUL LEON EWING, Ph.D., *Associate in Pharmacology, Materia Medica, and Therapeutics*
RICHARD ALVIN JENTZSCH, D.D.S., M.S., *Associate in Prosthetic Dentistry*
ELI OLECH, D.D.S., M.S., *Associate in Oral Surgery*
KERMIT FREDERICK KNUDTZON, D.D.S., *Associate in the Infirmary*
WALTER WILLIAM DALITSCH, B.S., D.D.S., M.D., *Associate in Medicine and Health Officer*
ROBERT KNIGHTON BAXTER, D.D.S., *Associate in Operative Dentistry*
HENRY JOHN DROBA, D.D.S., *Associate in Oral Surgery*
PAUL LILJA LANE, D.D.S., *Associate in the Infirmary*
CHARLES MATHEW BUCKMAN, D.D.S., *Associate in Operative Dentistry*
BEULAH GRATTAN NELSON, D.D.S., M.S., *Associate in the Children's Clinic*
CLARENCE A. JOHNSON, Ph.D., *Associate in Physiological Chemistry*
PAUL WINSTON SMITH, Ph.D., *Associate in Physiology*
MARGARITA ULLOA, B.S., D.D.S., *Associate in Operative Dentistry*
MAYNARD KIPLINGER HINE, D.D.S., M.S., *Associate in Dental Pathology and Therapeutics*

Lecturers

ELMER DEWITT BROTHERS,¹ B.S., LL.B., *Lecturer in Dental Jurisprudence*, Emeritus
BENJAMIN WHAM, A.B., J.D., *Lecturer in Dental Jurisprudence*

Instructors

FRANCES B. SCHWAB, *Instructor in Histology*
ANITA MARIE ELLINGSON, R.N., Ph.B., *Instructor in Dental Pathology and Therapeutics*
ANNA RIEKE, A.B., R.N., *Instructor in Oral Surgery*
WILLIS J. BRAY, D.D.S., *Instructor in Prosthetic Dentistry*
EDGAR HERMAN ARTHUR KRAMP, D.D.S., M.S., *Instructor in Dental Pathology and Therapeutics*
ERNEST W. MYER, D.D.S., M.S., *Instructor in Orthodontia*
BESS HELEN FAUST, A.B., *Instructor in Orthodontia and in Roentgenology*
HENRY FRANCIS ANDREE, D.D.S., *Instructor in the Infirmary*
FORREST A. DANN, D.D.S., *Instructor in the Infirmary*
EARL WILEY RENFROE, D.D.S., *Instructor in the Infirmary*
MAX ELEAGER FISCH, M.S., M.D., *Instructor in Anatomy and in Medicine*
FRED NORMAN BAZOLA, D.D.S., *Instructor in Prosthetic Dentistry*
ABRAHAM GOLDSTEIN, D.D.S., M.S., *Instructor in Orthodontia*
DAVID WIDMANN PHILLIPS, D.D.S., *Instructor in Prosthetic Dentistry*
JOSEPH WILLIAM GORDON, D.D.S., *Instructor in Oral Surgery*
ARTHUR LOUIS ALBAN, D.D.S., *Instructor in Oral Surgery*
FRANK CARL FABIAN, D.D.S., *Instructor in Oral Surgery*
FRANK CHARLES BESIC, D.D.S., *Instructor in Operative Dentistry*
MARSHALL FREDERICK GRUNWALD, B.S., D.D.S., *Instructor in Dental Pathology and Therapeutics*
MILO BERNHARDT HATTENHAUER, D.D.S., *Instructor in Prosthetic Dentistry*
RAYMOND CLIFFORD INGRAHAM, Ph.D., *Instructor in Physiology*
HAROLD CARL STRUCK, Ph.D., *Instructor in Physiology*

Assistants

CLARICE LILLIAN MESICK, R.N., *Assistant in the Children's Clinic*
FRANCES AGNES BRIGGS, M.S., *Assistant in Physiological Chemistry*
CECIL CLAUDE HARVEY, M.S., *Assistant in Physiological Chemistry*
JOHN A. HIGGINS, D.D.S., *Assistant in Pharmacology, Materia Medica, and Therapeutics*
ELEANOR SCHLOSSER KING, D.H., *Assistant in Prosthetic Dentistry*
DAVID BERMAN, B.S., D.D.S., *Assistant in Dental Pathology and Therapeutics*
WILLIAM JOSEPH HOGAN, D.D.S., *Assistant in Prosthetic Dentistry*
LEONARD GELFAND, B.S., D.D.S., *Assistant in Histology*
ROBERT DANE CURTIS, B.S., D.D.S., *Assistant in Operative Dentistry*
WILLIAM FRANKLIN DENNEMAN, B.S., D.D.S., *Assistant in the Infirmary*
JULIUS BERMAN, B.S., D.D.S., *Assistant in Dental Pathology and Therapeutics*

¹Deceased April 6, 1937.

KENNETH PALMER SHARPE, B.S., D.D.S., *Assistant in Dental Pathology and Therapeutics*

REUBEN ARTHUR LARSEN, D.D.S., *Assistant in Prosthetic Dentistry*

SUREN MANOOG SERON,¹ B.S., D.D.S., *Assistant in Oral Surgery*

ARTHUR VALENTINE BERGQUIST, B.S., M.D., *Assistant in Anatomy*

ROBERT EDWARD DYER, B.S., M.D., *Assistant in Anatomy*

JACOB ABRAHAM GLASSMAN, B.S., M.D., *Assistant in Anatomy*

ARTHUR DEO KLEIN, B.S., *Assistant in Physiology*

Artists

NELLIE MORGAN FRAIN, *Artist in Dental Illustration*

Technicians

GUSTAVE SWANSON, *Technician in the Infirmary*

STANLEY GREGORY MOORE, *Technician in Bacteriology and Public Health*

HILDA PAULSEN, *Technician in Bacteriology and Public Health*

OCIE ROMNEY BURNS, Ph.G., *Technician in Physiological Chemistry*

GEORGE MILLER, *Technician in Anatomy*

KATHERINE CARR, *Technician in Graduate Orthodontia*

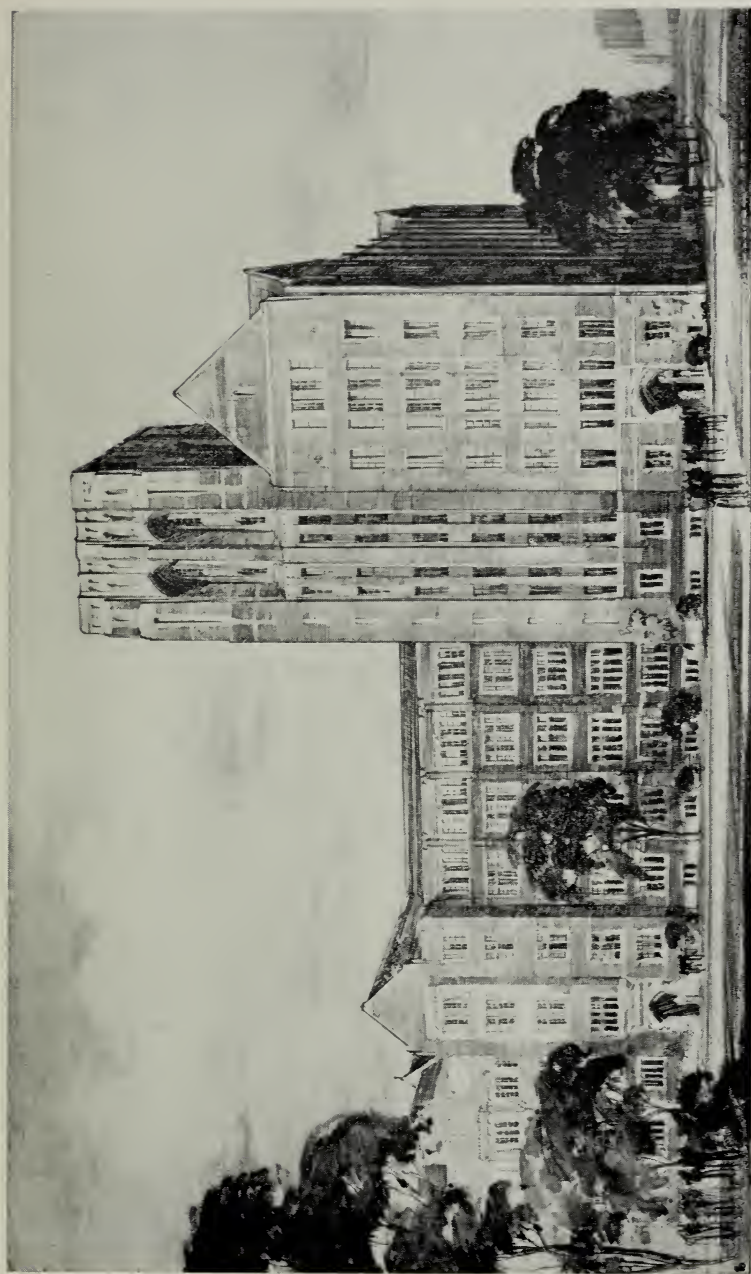
EDNA MARGARET ANDERSON, *Technician in Roentgenology*

MINA RAE MORFORD BOHAN, *Technician in Orthodontia and in Oral Pathology*

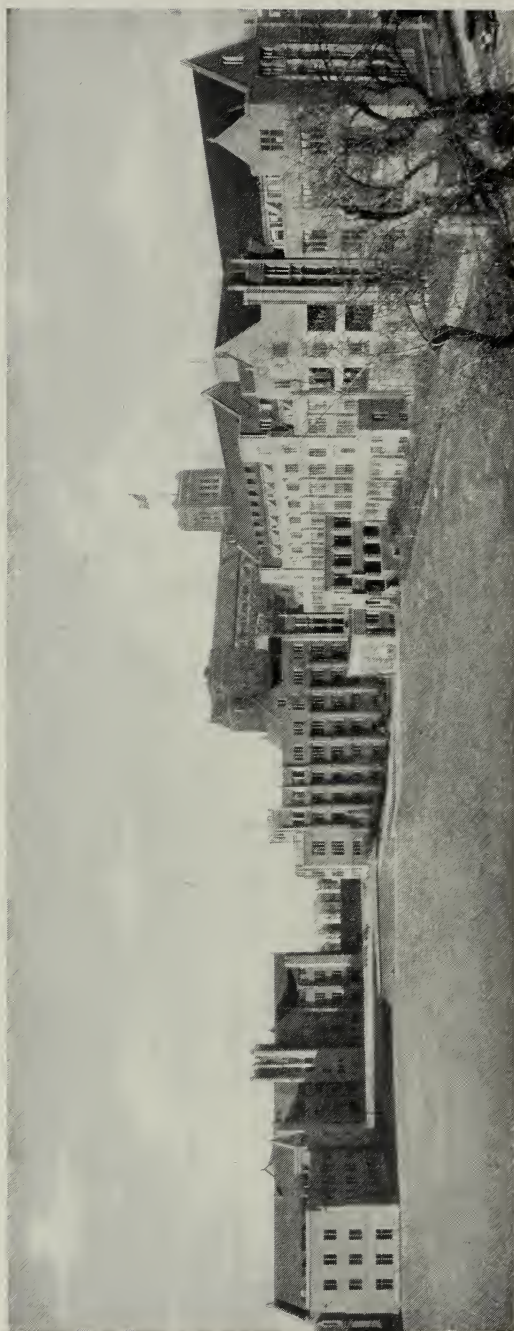
GLADYS GUSTAFSON, *Technician in Prosthetic Dentistry*

VIRGINIA LORETTA STONER, *Technician in Dental Pathology and Therapeutics*

¹Beginning February 1, 1937.



THE MAIN LABORATORY BUILDING OF THE COLLEGES OF MEDICINE AND DENTISTRY



THE CAMPUS VIEWED FROM THE SOUTHEAST, WITH THE RESEARCH AND EDUCATIONAL HOSPITAL IN THE FOREGROUND

THE COLLEGE OF DENTISTRY

Location

At the opening of the school year 1937-38 those departments of the College of Dentistry which have been located at the corner of Harrison and Honore Streets will be established in the new unit of the University of Illinois Medical and Dental College Laboratories Building at the corner of Polk and Wood Streets.

Buildings

The new building will house the administrative offices, the histology, pathology, and technical departments, and the dental clinics including oral surgery. The fundamental sciences will be offered in the first unit of the Medical and Dental College Laboratories Building at the corner of Lincoln and Polk Streets, as they have been since the latter was completed in 1931.

Both buildings contain extensive laboratory space for class work and research, operating room for the several clinics, amphitheatres for autopsies, surgery, general assemblies, classes, and student activities, and rest rooms for women and for men.

The new building adjoins the Research and Educational Hospital and the Research and Library Building; its proximity to the hospital and the library as well as to the College of Medicine will contribute much to the cooperation already established between the two colleges and to the development of medicine and dentistry in the relation which makes for better health service on the part of both.

Infirmaries

Since a large part of the third and fourth years is devoted to the supervised practice of dentistry by students, ample clinical space is provided on the fourth, fifth, sixth, seventh, eighth, ninth, twelfth, and thirteenth floors. Instead of massing all departments in one large infirmary, each clinical department has its infirmary on its own floor. This makes possible more satisfactory lighting for each chair, and greater efficiency in teaching than was possible under the old plan. The clinical equipment has been especially designed and is modern in character throughout.

Library

The medical and dental libraries are housed in the Research and Library Building; both are available for the use of dental students. In the two libraries there are more than 47,000 volumes and 5,000 pamphlets; this includes a comprehensive collection of works on dental and allied subjects. All standard dental journals are kept on file, and there is a representative collection of works in literature, standard and modern. The libraries are open from 8:30 a.m. to 10:00 p.m., and room is provided for students desirous of employing their study periods.

General Plan of Instruction

The course of instruction leading to the degree of Doctor of Dental Surgery is based on sixty hours of credit earned in an accredited college of liberal arts and sciences. Sixty hours are required in order that the student may have the background and training which will enable him intelligently to enter upon and complete a comprehensive course in dentistry. The advance of knowledge in both medicine and dentistry during the last few years has made necessary many changes in the dental curriculum

in order that students may be prepared to practice a profession which is an integral part of health service. The new responsibilities imposed on the profession by the recognition of the systemic relations and implications of oral disease demand of the practitioner a knowledge of the fundamental sciences which cannot be acquired without at least two years of thorough and systematic preparation.

The inclusion of physics and organic chemistry in the pre-dental course releases more hours during the first two years of the dental course for the biological sciences, and during the last two years for medical subjects necessary to enable the student to grasp the systemic connections of oral disease, and to incorporate this conception in the practice of dentistry.

The first two years of the curriculum include courses in physiological chemistry, anatomy, histology, physiology, bacteriology, and pathology presented by members of the staff of the College of Medicine. At the same time instruction in dental technique is given with emphasis on the comprehension of principles rather than on the number of technical units completed.

Actual clinical practice is continuous throughout the third and fourth years, accompanied by courses in diagnosis and medicine which enable the student to correlate oral and systemic disease. The inclusion in entrance requirements of so much fundamental science and the compression of hours of technique leave more time available for clinical practice.

During the third year the student is admitted to the infirmary and begins clinical operations on patients; in the fourth year the emphasis is on diagnosis, with due consideration of systemic involvements, and on the management of the patient by the student from the time the patient enters the diagnostic clinic until he is discharged from the infirmary.

Each year more hospitals are establishing dental internships. Graduates of the College of Dentistry are urged to take advantage of these opportunities for gaining experience before entering upon private practice, and every effort is made to assist graduates in securing such positions.

Requirements for Admission

Applications for admission must be made to the Dean of the College of Dentistry. Credentials covering all college and high school work must be sent directly to the Dean from each institution attended. Women are admitted on the same terms as men. For admission to the College of Dentistry, each candidate must present satisfactory evidence of six years of work as follows:

1. Four years of work in an accredited high school or the equivalent, comprising not fewer than fifteen units in acceptable subjects, including prescribed subjects as follows:

	UNITS ¹
English.....	3
Algebra.....	1
Plane geometry.....	1
Laboratory science.....	1
Electives (not more than four units of non-academic subjects).....	9
<i>Total</i>	<i>15</i>

2. Two years of work in an approved college of liberal arts and sciences, comprising not fewer than sixty semester hours, and including prescribed subjects as follows:

¹A unit is the amount of work represented by the pursuit of one high school subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practice.

	SEMESTER HOURS ¹
Chemistry (including four hours of organic chemistry).....	12
Physics.....	6
Biology.....	6
English.....	6
Electives (excluding military, hygiene, and physical education)....	30
<i>Total</i>	<u>60</u>

Credits of students who wish to be candidates for the degree of Bachelor of Science upon the completion of the second year in the College of Dentistry should be distributed as follows:

	SEMESTER HOURS ¹
Chemistry (including four hours of organic chemistry).....	12
Physics.....	6
Biology.....	8
English.....	6
German, French, Spanish, or Italian.....	6
Electives (excluding chemistry, physics, and biology).....	6
Free Electives.....	16
<i>Total</i>	<u>60</u>

As the function of the pre-dental years is to supply a general background for the student as well as specific training in the fundamental concepts of the sciences, it is recommended that the elective hours include history, economics, sociology, philosophy, and at least one modern language.

Note.—No student at Urbana will be permitted to transfer his registration to the College of Dentistry while his record shows a deficiency in any of the subjects which, as general requirements of the University, are a part of his curriculum.

A person whose record at some other institution comes within either of the following classifications may enter the University only on approval of the dean of the college concerned and under conditions imposed by him: (1) A person dropped from another institution for poor scholarship or for disciplinary reasons. (In the latter case he must also obtain approval of the University Senate Committee on Discipline.) (2) A person whose record shows as much as fifty per cent (or more than twenty-five hours) of unsatisfactory work, i.e., unremoved failures and credits earned with a grade equivalent to the lowest passing grade in the University of Illinois.

Admission to Advanced Standing

Students who meet the requirements for admission to the University of Illinois and who have studied dentistry for not less than one year in any college accredited to the University of Illinois, may be admitted to advanced standing. Such students, however, will be required to comply with all the conditions of the curriculum of the College of Dentistry.

Graduates of colleges of medicine accredited to the University of Illinois may be admitted to the College of Dentistry and given credit for one year in time and for all satisfactorily completed courses which are required by the College.

Students presenting sufficient credits applicable to the first-year curriculum in addition to those required for entrance may enter at the beginning of the second semester of the first year.

Students holding credits other than those listed above should communicate with the Dean for further information.

¹By a *semester hour* is meant the work of a class meeting one hour each week for a semester of 18 weeks. Sixty semester hours represent ordinarily two years of college work.

A letter of honorable dismissal and a transcript of record are required of any applicant who has previously attended a dental school.

Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

Admission of Unclassified Students

A person twenty-one years of age or over, who has met the requirements for admission as determined in the usual way by the Registrar, or who is a graduate of a recognized College of Dentistry, may be admitted, on approval of the Dean, as an unclassified student, to take a partial schedule of work. Fees are prorated in proportion to the amount of work taken.

Requirements for Graduation

For the degree of Bachelor of Science.—A student must have secured satisfactory grades in all the courses of the first two years in the College of Dentistry. (Hours of entrance credit must be distributed as indicated on page 13.)

For the degree of Doctor of Dental Surgery.—A student must have completed the work of the curriculum with a grade of "C" or better in at least three-fourths of the work leading to the degree. (See page 31.)

Significance of Grades.—The literal system of grading is used, and "D" is the passing grade. Where it is necessary to translate percentage to literal grades, or vice versa, the following values are used: "A," 92 to 100%; "B," 85 to 91%; "C," 75 to 84%; "D," 70 to 74%. For calculating averages, the point system is used, with values as follows: "A" equals 5; "B," 4; "C," 3; "D," 2.

Graduation with Honors.—A student who complies with the requirements for graduation and who attains in all work presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, graduation with honors; for an average grade of not less than 4.75, graduation with high honors. The honors conferred shall be noted upon the diploma and the Commencement program.

A chapter of Omicron Kappa Upsilon, a national honorary dental fraternity, was organized in the College of Dentistry in 1928. Dental students who on completion of their dental course have a grade of scholarship ranking them in the highest twelve per cent of their class are eligible for membership.

Graduate Courses

Courses leading to the degree of Master of Science are offered in histology, oral surgery, orthodontia, and therapeutics. (See page 44.) A circular on the course in orthodontia is available upon request.

Special Courses for Dentists

The following special courses, each of which continues four weeks, are offered at the College of Dentistry during the year to legally qualified practitioners: ceramics; crowns and fixed partial dentures; full dentures and removable partial dentures; histology; operative dentistry; oral surgery; and therapeutics. Descriptions of these courses appear in this circular under the various departments.

A special full-time course in orthodontia, one calendar year in duration, is offered to dentists who meet the requirements established for this course. Information is available upon request.

Summer Courses

A summer course is available to third-year and fourth-year students in clinical practice, including operative dentistry, prosthetic dentistry, therapeutics, and oral surgery.

Students may receive credits applying on either third-year or fourth-year infirmiry requirements.

Students may register for the entire term of sixteen weeks or for any part of the term.

Fees¹ and Expenses

	FIRST YEAR		SECOND YEAR ²		THIRD YEAR		FOURTH YEAR ²	
	<i>Illinois</i>	<i>Non-Ill.</i>	<i>Illinois</i>	<i>Non-Ill.</i>	<i>Illinois</i>	<i>Non-Ill.</i>	<i>Illinois</i>	<i>Non-Ill.</i>
Matriculation (paid but once).....	\$ 10.00	\$ 10.00	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
Tuition.....	150.00	225.00	150.00	225.00	150.00	225.00	150.00	225.00
Laboratory.....	76.00	76.00	86.50	86.50	101.00	101.00	101.00	101.00
<i>Total</i>	<i>\$236.00</i>	<i>\$311.00</i>	<i>\$236.50</i>	<i>\$311.50</i>	<i>\$251.00</i>	<i>\$326.00</i>	<i>\$251.00</i>	<i>\$326.00</i>

Note: The above fees are for students entering in September, 1936, and thereafter. (For fees applicable to other students, see Circular for 1936-37.)

Fees for Part-Time Students.—Effective for new students entering in September, 1936, and thereafter. (For partial fees applicable to other students, see Circular for 1936-37.)

Residents of Illinois registered for partial programs pay fees as follows: In first-year and second-year courses, 25 cents per clock hour, plus regular laboratory fees in the courses for which the student registers. In third-year and fourth-year courses, 20 cents per clock hour, plus full laboratory fees and an additional 15 cents per clock hour for courses involving dispensary or infirmiry.

Non-state students registered for partial programs pay one and one-half times the above stated clock hour fees, except for dispensary and infirmiry.

In no case will a part-time student be assessed a larger fee than the regular fees for full-time work.

Scholarship students in the College of Dentistry registered for partial programs in the third and fourth years pay thirty per cent of the above amount for dispensary fees.

Summer Term Tuition and Infirmiry Fee.—

For residents of Illinois: tuition, \$12.50; infirmiry, \$12.50; total, \$25.00.

For non-residents of Illinois: tuition, \$22.50; infirmiry, \$12.50; total, \$35.00.

Students registering for more than half the summer term pay regular fees; for half the term or less, students pay half the regular fees.

Late Registration Fee.—Former students who enter after the registration days pay a late registration fee of..... \$ 5.00

Special Examination Fee.—For any special examination a fee of..... 5.00

Change Fee.—For every change of study-list made later than the Saturday noon following registration, a fee of \$1.00 is charged, except that the total charge for the rearrangement authorized on any one change-slip shall not exceed..... 2.00

(The above ruling applies to registration for electives after the dates specified for regular registration.)

¹The Trustees reserve the right to change the fees at any time. Laboratory fees are subject to adjustment from year to year.

²Graduation fee of \$10.00 is required, payable at the end of the second year by students receiving the B.S. degree, and at the end of the fourth year by students receiving the D.D.S. degree.

Listener's or Visitor's Fee.—For each 25 clock hours, or fraction thereof:

Residents of Illinois pay.....	10.00
Non-residents of Illinois pay.....	20.00

Transcript Fee.—Each student who has paid all his University fees is entitled to receive, without charge, one transcript of his record. For additional transcripts, charges are made as follows:

For each original, or first, copy.....	1.00
For each carbon copy.....	.50

Special Courses for Dentists (No matriculation is required)..... 50.00

Unclassified Students.—Fees charged unclassified students are based on the amount of work taken.

Payment of Deferred Fees.—In cases of necessity, students may arrange for deferment of fees by calling at the Business Office, Room 110, Medical and Dental College Laboratories Building.

A service charge of ten per cent of the amount of fees deferred, but not to exceed \$3.00, will be charged for the privilege of deferring fees, and this charge *must be paid on Registration Day*. If deferred fees are paid in full within ten days of Registration Day, the service charge will be refunded *except* that a minimum service charge of \$1.00 will be retained by the University. The matriculation fee of \$10.00 (if not previously paid), the service charge, not less than twenty-five per cent of the current semester fees, and all fees and charges from previous semesters must be paid *on Registration Day*.

Failure to meet payments of fees within the time limits will cancel at once the privilege of attending classes.

Registration is not completed until fees are paid in full, and no credit will be recorded for class work completed unless all fees and all other charges have been paid in full. Deferred payment of fees delays the completion of registration but extends the privilege of attending classes pending payment of fees in full as described above.

Refunds.—If a student withdraws from the school within ten days after the beginning of instruction, the total amount of his fees except the matriculation fee will be refunded. After ten days and before the expiration of one month, a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months, a refund of one-half of these fees will be made. After two months and before the expiration of three months, a refund of one-fourth of these fees will be made. After the expiration of three months no part of the fees will be refunded.

Estimate of Expenses.—An estimate of the annual expenses for books, materials, and instruments is as follows:

First Year

Books.....	\$ 40.00	
Materials.....	10.00	
Instruments.....	125.00	
<i>Total</i>		\$175.00

Second Year

Books.....	12.00	
Materials.....	80.00	
Instruments.....	245.00	
<i>Total</i>		337.00

Third Year

Books.....	\$23.00	
Materials.....	20.00	
Instruments.....	15.00	
<i>Total</i>		\$58.00

Fourth Year

Books.....	20.00	
(Replacements and repairs only.....))	
<i>Total</i>		20.00
TOTAL		\$590.00

Each student is also required to supply himself with a microscope at the beginning of the first year. The cost of the microscope is in addition to the expense listed above. All microscopes must be approved by the Head of the Histology Department.

The instruments purchased during the four years constitute a part of the equipment of a dental office. Instruments and supplies may be secured at the dental supply store on the fourth floor of the College of Dentistry.

The expenses of living in Chicago are less than in most large cities. From thirty to fifty dollars per month may be regarded as adequate for the ordinary living expenses of a student, exclusive of books, clothing, railroad fare, and miscellaneous needs. A ten-story Y.M.C.A. building located two blocks from the College affords a comfortable home for students.

Physical Examinations

Students contemplating a dental course should check up on their health and physical condition. The dental program is exacting and strenuous, and loss of time is costly. A complete physical examination by the family physician is urged. The eyes and teeth should be in the best of condition. Tonsils should be removed if the physician deems this advisable.

A competent health service is provided for students. Physical examinations during the first year are compulsory, and every effort is made to assist the students in their own health problems.

Scholarships

The following scholarships are open for students in the College of Dentistry:

General Assembly Scholarships.—One nomination annually by each member of the General Assembly. Nominations must be received by the President of the University not later than the first Monday in July of the year in which the scholarship is to become effective.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly in 1919.

(For circulars giving more detailed information concerning scholarships apply to the Registrar, Urbana, Illinois.)

Loan Funds

A number of loan funds have been established for the benefit of worthy students who are in need of financial aid in order to finish their courses in the University. For more detailed information apply to the office of the Dean.

Honorary Research Assistantships

Students may, during the last year of their course, be permitted to pursue advanced work in a department, provided, first, that they have shown special aptitude; and, second, that their previous work has been of a sufficiently high grade. If at the end of the last year's work the student's application and attainment are regarded as of a sufficiently high character, he may be awarded an honorary research assistantship.

Licenses to Practice in England

The College of Dentistry of the University of Illinois has been listed since 1916 as one of the dental schools recognized by the Royal College of Surgeons, in London. This recognition implies that the Royal College of Surgeons will exempt graduates in dental surgery of the University of Illinois from the preliminary science examination for the license in dental surgery, and will accept such parts of the curriculum for the license as are completed in the College of Dentistry of the University of Illinois toward the curriculum of studies required for the license.

Further Information

This announcement applies to the session beginning September 27, 1937, and all requirements, fees, and regulations mentioned in it apply to this college year alone. The Trustees of the University of Illinois reserve the right to make changes in succeeding announcements. Conditions specified in the catalog cannot be modified except with the written consent of the proper officials of the University.

For further information address

THE DEAN, COLLEGE OF DENTISTRY
UNIVERSITY OF ILLINOIS
808 SOUTH WOOD STREET, CHICAGO

COURSES OFFERED IN THE COLLEGE OF DENTISTRY

NOTE: The course numbers are indicated by Arabic numerals preceding the captions. Double numbers indicate courses extending through two semesters. Unless otherwise stated, the Arabic numbers following the description of courses indicate the number of one-hour periods a week. The first and second semesters are indicated by the Roman numerals, *I* and *II*, respectively.

ANATOMY, HISTOLOGY, AND EMBRYOLOGY

GROSS ANATOMY

Professors: KAMPMEIER (Head of the Department).

Associate Professors: VON BONIN.

Assistant Professors: JORANSON, ZECHEL.

Instructors: FISCH.

Assistants: BERGQUIST, DYER, GLASSMAN.

Required Courses

FIRST YEAR

- 11-12. *Systematic and Regional Anatomy*.—This includes a complete dissection of the body. Lecture, demonstration, recitation, and seminar, 2; laboratory, 2 three-hour periods. *I, II*. Assistant Professor JORANSON, Dr. FISCH, and assistants.
14. *Neurology*.—Gross and microscopic anatomy of the nervous system; dissection of the brain and examination of stained sections; correlation of structure and function. Lecture and demonstration, 1 two-hour period. *II*. Dr. ZECHEL and assistants.

Elective Courses

FOURTH YEAR

51. *Advanced Anatomy of the Head and Neck*.—Open to fourth-year students. Lecture or quiz, 1; laboratory, 1 three-hour period. *I*. Assistant Professor JORANSON.

Courses for Graduate Students

101. *Advanced Anatomy*.—The work may take the direction either of macroscopic or of microscopic anatomy, or of both, according to the student's major problem: in macroscopic anatomy, a detailed redissection of the human body, or any of its parts; in microscopic anatomy (embryology, cytology, histology, etc.), a consideration of morphological changes in the organism which are directly correlated with normal processes, such as reproduction, differentiation, nutrition, growth, variation, regulation, regeneration, activity, secretion, rest, fatigue, senility. (Work in the laboratory for tissue culture in association with Assistant Professor ZECHEL). Course designed for students choosing anatomy as a minor, and for students preparing for individual research in anatomy. One or two units. Professor KAMPMEIER, Associate Professor VON BONIN.
103. *Individual Research*.—In embryology, cytology and histology, neurology, anthropology and biometrics, experimental morphology, functional and applied anatomy. One to three units. Professor KAMPMEIER, Associate Professor VON BONIN.

HISTOLOGY AND EMBRYOLOGY

Professors: SCHOUR.

Instructors: SCHWAB.

Assistants: GELFAND.

Required Courses

FIRST YEAR

15. *General Histology*.—Cell structure; relation of cells and intercellular substances; the elementary tissue; the histology of the organs of the circulatory, alimentary, respiratory, genito-urinary, and nervous systems, and the skin and its appendages. Lecture or quiz, 2; laboratory, 2 two-hour periods. *I.* Professor SCHOUR, Miss SCHWAB, Dr. GELFAND.
16. *Dental Histology and Embryology*.—The tissue of the teeth, the supporting tissues, and tissues of the oral cavity, considered from the dental standpoint; the enamel, with special reference to operative procedures and preparation of cavity walls; the embryology of the teeth, face, and oral cavity. Lecture, recitation, or seminar, 2; laboratory, 2 two-hour periods. *II.* Professor SCHOUR, Miss SCHWAB, Dr. GELFAND.

Elective Courses

FOURTH YEAR

53. *Advanced Embryology of the Teeth and Oral Cavity*.—Course limited to ten students acceptable to the department. Lecture, 1; laboratory, 1 three-hour period. *I.* Professor SCHOUR.
55. *Advanced Histology of the Teeth and Oral Cavity*.—Course limited to ten students acceptable to the department. Lecture, 1; laboratory, 1 three-hour period. *I.* Professor SCHOUR.

Courses for Graduate Students

106. *Advanced Dental Histology*.—One or two units. Professor SCHOUR.
107. *Research in Microscopic Anatomy (Teeth and Related Tissues)*.—One to three units. Professor SCHOUR.

Special Courses for Dentists

61. *Histology*.—Conference and demonstration on the following subjects: cells, epithelial tissue, connective tissue, embryology of tooth, enamel, dentin and cementum, periodontal membrane, mandible, mouth tissues. Histologic analysis of the teeth of animals which have been subjected to various endocrine, vitamin, and other metabolic disturbances. Fee for one month, \$50. Professor SCHOUR.

CHILDREN'S CLINIC

Professors: NOYES (Director of the Clinic).

Assistant Professors: GERLACH (Superintendent of the Clinic).

Associates: NELSON.

Assistants: MESICK.

Required Courses

FOURTH YEAR

41. *Children's Clinic*.—Advanced studies in care of children's teeth. Clinical practice. Students assigned in groups. Lecture, 6; clinic, 30 hours. *I.* (Not offered in 1937-38.) Clinic, 36 hours. *I* or *II.* Assistant Professor GERLACH, Dr. NELSON, and assistants.

Elective Courses**FOURTH YEAR**

51. *Children's Clinic*.—Clinical practice. Studies in therapeutics, operative procedures, and principles of space maintenance. Lectures or conferences, 1; clinic, 1 three-hour period. *I.* Assistant Professor GERLACH.

DENTAL JURISPRUDENCE

Lecturers: BROTHERS¹ (Emeritus), WHAM.

Required Courses**FOURTH YEAR**

42. *Dental Jurisprudence*.—The principles of law governing individual and professional rights and obligations; responsibilities arising from the relation of dentist and patient and their enforcement in court; confidential character and inviolability of such relation; dental laws of the various states. Lectures, 1 (6 weeks). *II.* Dr. WHAM.

DENTAL PATHOLOGY AND THERAPEUTICS

Professors: MCGUIGAN (Head of the Department in the College of Medicine), CAMP.

Assistant Professors: KESEL.

Associates: WACH, EWING, HINE.

Instructors: ELLINGSON, KRAMP, GRUNWALD.

Assistants: HIGGINS, D. BERMAN, J. BERMAN, SHARPE.

Required Courses**SECOND YEAR**

22. *Technic*.—The mechanics of exposing, cleaning, enlarging, and filling root-canals. Principles of mouth examination and technic of oral prophylaxis. Lecture, 1; laboratory, 1 three-hour period. *II. Prerequisite:* Operative Dentistry 21. Dr. KRAMP.

THIRD YEAR

31. *Materia Medica and Therapeutics*.—Nomenclature, classification and action of drugs, and prescription writing. Lectures, 2. *I. Prerequisite:* Physiology 21-22. Dr. WACH.
32. *Pharmacodynamics*.—Demonstrations and laboratory exercises, 1 two-hour period. *II. Prerequisite:* Dental Pathology and Therapeutics 31. Professors MCGUIGAN and CAMP, Dr. HIGGINS, Dr. EWING, and assistants.
33. *Hygiene and Public Health*.—Measures for prevention of dental disease. The oral flora and their relation to disease. Technic of oral hygiene. Hygiene of ventilation, communicable diseases, waste disposal, and sanitation. Lecture, 1. *I. Prerequisite:* Pathology and Bacteriology 21. Dr. HINE, Miss ELLINGSON.
34. *Dental Pathology and Therapeutics*.—Etiology, pathology, and treatment of lesions of the investing tissues of the teeth and of other oral tissues. Stomatitis, etiology, pathology, and treatment. Lectures, 2. *II. Prerequisite:* Dental Pathology and Therapeutics 31, and Pathology and Bacteriology 31. Assistant Professor KESEL, Dr. HINE.

¹Deceased April 6, 1937.

- 35-36. *Clinical Practice*.—Clinical and laboratory examination; oral prophylaxis; treatment of the parodontal tissues; general management of root-canals. Conferences and demonstrations to groups. *I, II. Prerequisite:* Operative Dentistry 21-22, Dental Pathology and Therapeutics 22, and Pathology and Bacteriology 21. Members of the staff.

FOURTH YEAR

41. *Dental Pathology and Therapeutics*.—Pathology of dental caries, pathology and treatment of diseases of the dental pulp and periapical tissue. Tissue reactions in periapical region following pulp removal. Lectures, recitations, laboratory, and demonstrations, 3. *I. Prerequisite:* Dental Pathology and Therapeutics 32 and 35-36. Assistant Professor KESEL, Dr. HINE.
- 45-46. *Clinical Practice*.—Clinical and laboratory examination and diagnosis of oral conditions; interpretation of radiograms; treatment of root-canals and parodontal tissues; records. Conferences and demonstrations to groups. *I, II. Prerequisite:* Dental Pathology and Therapeutics 35-36. Members of the staff.

Elective Courses

FOURTH YEAR

51. *Advanced Therapeutics*.—Group or individual conference, 1; laboratory, 1 three-hour period. *I. Prerequisite:* Dental Pathology and Therapeutics 35-36. Course limited to six students who are acceptable to the department. Assistant Professor KESEL, Dr. HINE.

Courses for Graduate Students

101. *Advanced Therapeutics*.—One or two units. Assistant Professor KESEL.
103. *Therapeutic Research*.—One or two units. Assistant Professor KESEL.

Special Courses for Dentists

61. *Dental Pathology and Therapeutics*.—Discussion of diseases of the dental pulp and the periapical tissues and their treatment. A study of tissue reactions following treatment as exhibited by clinical, radiographic, and microscopic findings. The management of clinical cases. Fee for one month, \$50. Assistant Professor KESEL, Dr. HINE.
62. *Dental Pathology and Therapeutics*.—Discussion of diseases of the parodontal tissues and their treatment. The microscopic study of the gingival crevice and pathologic pockets in human material. The management of clinical cases. Fee for one month, \$50. Assistant Professor KESEL, Dr. HINE.

DIAGNOSIS

Assistant Professors: KREJCI (Examiner in the Infirmary).
Associates: KNUDTZON, LANE, DALITSCH.
Instructors: ANDREE, DANN, RENFROE.
Assistants: DENNEMAN.

Required Courses**THIRD YEAR**

31. *Oral Diagnosis and Radiographic Interpretation*.—Principles and methods. Lecture and quiz, 1 (8 weeks). *I.* Assistant Professor KREJCI.
32. *Diagnosis*.—Clinics and conferences, 3 three-hour periods. Students assigned in groups. *II.* Assistant Professor KREJCI.

FOURTH YEAR

- 41-42. *Diagnosis*.—Clinic and conference, 1. *I, II.* Assistant Professor KREJCI and heads of clinical departments.

Elective Courses**FOURTH YEAR**

51. *Diagnosis*.—Lecture or conference, 1; clinic, 1 three-hour period. *I.* Assistant Professor KREJCI, Dr. DALITSCH.

MEDICAL AND DENTAL HISTORY

Assistant Professor TALBOT

Required Courses**FIRST YEAR**

- 11-12. *History of Medicine and Dentistry*.—1. *I, II.*

SECOND YEAR

21. *History of Medicine and Dentistry*.—1. *I.*

22. *Dentistry and Society*.—1. *II.*

THIRD YEAR

32. *Dentistry and Society*.—(Offered to second-year students only after 1937-38.) 1. *II.*

FOURTH YEAR

42. *Seminar*.—Individual consultations on the preparation of scientific papers. 2. *II.*

Elective Courses**FOURTH YEAR**

51. *Social Problems*.—1. *I.*

MEDICINE

Professors: KEETON, HESS, SENEAR.

Associate Professors: WIEN, PONCHER.

Associates: DALITSCH.

Required Courses**THIRD YEAR**

31. *Clinical Pediatrics*.—Lecture and clinic, 1 two-hour period. *I.* Professor HESS, Associate Professor PONCHER.

- 33-34. *Medicine*.—Lecture and clinic, 1 one-hour period. *I, II.* Dr. DALITSCH.

36. *Dermatology*.—Lecture and clinic, 1 one-hour period. *II.* Professor SENEAR, Associate Professor WIEN.

FOURTH YEAR

- 41-42. *Medicine*.—Lecture and clinic, 1 two-hour period. *I, II.* Dr. DALITSCH.

Courses for Graduate Students

101. *Research in Medicine*.—One to three units. Professor KEETON.

OPERATIVE DENTISTRY

Professors: GALLIE (Emeritus), NYLANDER (Acting Head of the Department and Director of the Infirmary).

Assistant Professors: GERLACH (Superintendent of the Children's Clinic), KREJCI (Examiner in the Infirmary).

Associates: BAXTER, BUCKMAN, ULLOA.

Instructors: BESIC.

Assistants: CURTIS.

Required Courses

FIRST YEAR

11-12. *Dental Anatomy*.—A study of human teeth, their structure, forms, and relations to each other. Lecture or quiz, 1; laboratory, 1 three-hour period. *I, II.* Dr. BUCKMAN, Dr. ULLOA, Dr. BESIC.

SECOND YEAR

21-22. *Technic*.—Theory of the etiology and treatment of dental caries; various types of restorations on models and manikins. Lecture and quiz, 1; laboratory, 2 three-hour periods; *I.* Lecture, 1; laboratory, 1 three-hour period; *II. Prerequisite:* Operative Dentistry 11-12. Professor NYLANDER, Dr. BAXTER, Dr. CURTIS.

THIRD YEAR

31-32. *Operative Dentistry*.—Principles of practice. Lecture, 1. *I, II. Prerequisite:* Operative Dentistry 21-22. Professor NYLANDER.

35-36. *Clinical Practice*.—Diagnosis. Restorations. Conferences and demonstrations to groups. *I, II. Prerequisite:* Operative Dentistry 21-22. Members of the staff.

FOURTH YEAR

41-42. *Clinical Observations and Practice Management*.—Lecture, 1, bi-weekly. *I, II. Prerequisite:* Operative Dentistry 35-36. Professor NYLANDER.

45-46. *Clinical Practice*.—Continuation of courses 35-36 with emphasis on more difficult cases. Practical examinations. *I, II. Prerequisite:* Operative Dentistry 35-36. Members of the staff.

Elective Courses

51. *Variables and Modifications in Operative Dentistry*.—Lecture, 1; laboratory, 1 three-hour period. *I.* Professor NYLANDER.

Special Courses for Dentists

61. *Operative Dentistry*.—Gold foil, inlay, amalgam, and cement restorations with detailed discussion of instrumentation and operating procedures. The course is supplemented by lectures on the etiology and treatment of caries; causes and results of mechanical and chemical injury to teeth; indications and contra-indications for the various types of restorations. Fee for one month, \$50. Professor NYLANDER.

ORAL AND PLASTIC SURGERY AND ORAL PATHOLOGY

Professors: MOOREHEAD (Head of the Department), L. SCHULTZ (Emeritus).

Assistant Professors: LADD, L. W. SCHULTZ.

Associates: OLECH, DROBA.

Instructors: RIEKE, GORDON, ALBAN, FABIAN.

Assistants: SERON.

Required Courses**THIRD YEAR**

31. *Anaesthetics*.—Lecture and conference. 1 one-hour period, 6 weeks. *I*. Dr. DROBA.
32. *Oral Pathology*.—Lectures, recitations, demonstrations, 2; laboratory, 1 three-hour period. *II*. Professor MOOREHEAD, Assistant Professor LADD, and assistants.
34. *Extracting Clinic*.—3 three-hour periods with groups. *II*. Dr. DROBA, Dr. OLECH, Miss RIEKE.

FOURTH YEAR

- 41-42. *Oral Surgery*.—Recitation and conference, 1. *I, II*. Professor MOOREHEAD, Assistant Professor SCHULTZ.
43-44. *Oral Surgery*.—Clinic, 2 two-hour periods. *I, II*. Professor MOOREHEAD, Assistant Professor SCHULTZ, Dr. OLECH, Dr. DROBA, Miss RIEKE.
45-46. *Extracting Clinic*.—8 three-hour periods with groups. *I, II*. Dr. DROBA, Dr. OLECH, Miss RIEKE.

Elective Courses**FOURTH YEAR**

51. *Extraction*.—Extended instruction. Lecture, 1; laboratory, 1 three-hour period. *I*. Professor MOOREHEAD, Dr. DROBA, Miss RIEKE.
53. *Oral Pathology*.—Special study of tumors of the mouth. Lecture, 1; laboratory, 1 three-hour period. *I*. Assistant Professor LADD.

Courses for Graduate Students

101. *Pathology of Mouth*.—One or two units. Professor MOOREHEAD.
103. *Oral Surgery*.—One or two units. Professor MOOREHEAD.

Special Courses for Dentists

61. *Anaesthesia and Extraction*.—Studies in anatomy and methods on green skull preparations. General principles governing the extraction of teeth with clinical practice. Fee for one month, \$50. Dr. DROBA, Dr. OLECH.
62. *Oral Pathology*.—Laboratory studies in mouth pathology. Fee for one month, \$50. Professor MOOREHEAD, Assistant Professor LADD.
63. *Minor Oral Surgery*.—Study of individual cases, illustrating methods of examination and preparation of case reports, summary of conclusions, with treatment. Clinical demonstrations, four hours each week. Hospital clinics by appointment. Fee for one month, \$50. Professor MOOREHEAD, Assistant Professor SCHULTZ, Dr. DROBA, Dr. OLECH.

ORTHODONTIA

Professors: NOYES (Head of the Department), BRONIE.

Assistant Professors: DOWNS.

Instructors: MYER, FAUST, GOLDSTEIN.

Required Courses

THIRD YEAR

31. *Fundamentals of Occlusion*.—Phylogenetic development of teeth, jaws, and face; study of bones and musculature of the head and neck; the forces of occlusion and the growth and development of the head and face. Lecture, 1. *I*. Professor BRODIE.
32. *Orthodontia*.—Demonstration and technic; impressions, plaster models; soldering technic. Laboratory, 2 two-hours periods. *II*. Dr. MYER, Dr. GOLDSTEIN.
34. *Orthodontia*.—History; fundamental principles; normal occlusion; development of denture; forces of occlusion; classification; etiology of malocclusion. Lecture, 1. *II*. Professor BRODIE, Assistant Professor DOWNS.

FOURTH YEAR

41. *Orthodontia*.—History; fundamental principles; normal occlusion; development of denture; forces of occlusion; classification; etiology of malocclusion. Lecture, 1. *I*. (Offered only in the third year after 1937-38.) Professor BRODIE, Assistant Professor DOWNS.
42. *Orthodontia*.—History, development of appliances; gathering of histories; case analysis; principles of treatment; possibilities and limitations. Lecture, 1. *II*. (Offered in the first semester after 1937-38.) Professor BRODIE, Assistant Professor DOWNS.
- 43-44. *Orthodontia*.—Presentation of cases showing records taken, analysis, prognosis, method of treatment and results. Clinic, demonstration, and conference, 1 two-hour period. *I*, *II*. Professor BRODIE, Assistant Professor DOWNS, Dr. MYER, Dr. GOLDSTEIN.

Elective Courses

FOURTH YEAR

51. *Orthodontia*.—Anthropometry and cephalometric research. Lecture, 1; laboratory, 1 three-hour period. *I*. Professor NOYES, Professor BRODIE.

Courses for Graduate Students

101. *Orthodontia*.—One to three units. Professor NOYES, Professor BRODIE.

PATHOLOGY AND BACTERIOLOGY

Professors: DAVIS (Head of the Department), PETERSEN, ARNOLD.

Associate Professors: PILOT, LEVINSON, NEDZEL.

Assistant Professors: LADD, MILLES.

Required Courses

SECOND YEAR

21. *General Bacteriology*.—Sterilization; disinfection; preparation of culture media; general morphologic and cultural characteristics of bacteria; isolation, cultivation, and identification of pathogens; relation of bacteria to disease; immunity; vaccines; application of principles of bacteriology to problems of hygiene. Animal experiments are used where appropriate. This course covers the general principles of bacteriology and immunology. Lectures, recitations, and demonstrations, 3; laboratory, 2 three-hour periods. *I*. Professor ARNOLD, Associate Professor NEDZEL, and assistants.

THIRD YEAR

31. *General Pathology*.—Principles of general pathology. Circulatory disturbances, retrogressive and progressive changes, inflammation, tumors and the special pathology of the important organs of the body. Emphasis is placed upon the study of gross specimens both fresh and preserved. Attendance upon autopsies is required in the second half of the semester. Lectures, recitations, and demonstrations, 3; laboratory, 3 two-hour periods. *I. Prerequisite*: Pathology and Bacteriology 21 and Physiology 21-22. Professor PETERSEN, Assistant Professor LADD, and assistants.

Courses for Graduate Students

101. *Advanced Pathogenesis*.—One to three units. Professors DAVIS, PETERSEN, and ARNOLD, Associate Professor PILOT.
103. *Individual Research*.—One to four units. Professors DAVIS, PETERSEN, and ARNOLD, Associate Professor PILOT.

PHYSIOLOGICAL CHEMISTRY AND METALLURGY

Professors: WELKER (Head of the Department).

Associate Professors: BERGEIM.

Assistant Professors: COLE.

Associates: JOHNSON.

Assistants: BRIGGS, HARVEY.

Required Courses

FIRST YEAR

11. *Physiological Chemistry*.—Physico-chemical properties of solutions. Chemistry of carbohydrates, lipides, and proteins. Enzymes and digestion. Lecture, demonstration, conference, 2; laboratory, 3½. *I.* Associate Professor BERGEIM, Assistant Professor COLE, Miss BRIGGS, Mr. HARVEY.
12. *Physiological Chemistry*.—Chemistry of bile, blood, milk, and tissues. Metabolism. Chemistry of urine (qualitative and quantitative). Lectures, demonstrations, conferences, 2; laboratory, 3½. *II.* Associate Professor BERGEIM, Assistant Professor COLE, Miss BRIGGS, Mr. HARVEY.

SECOND YEAR

22. *Metallurgy*.—The general principles of metallurgy. Extracting and refining of the various metals used in dentistry. The physical properties of metals. Analysis of ores, alloys, solders, and cements; refining of gold, silver, and tin. Preparation of alloys and solders. Lectures or conferences, 1; laboratory, 1 two-hour period. *II.* Professor WELKER, Dr. JOHNSON.

Elective Courses

FOURTH YEAR

51. *Metallurgy*.—An advanced course open to graduates or to students who have satisfactorily completed Metallurgy 22. Hours to be arranged. Professor WELKER.
- Research*.—The laboratories are open to persons with the requisite scientific training for the conduct of original investigation.

Courses for Graduate Students

101. *Advanced Biological Chemistry*.—Biochemical methods of research, biological colloids, enzyme action, and metabolism. One or two units. Professor WELKER, Associate Professor BERGEIM, Assistant Professor COLE.
102. *Metallurgical Research*.—One or two units. Professor WELKER.
103. *Biochemical Research*.—One or two units. Professor WELKER, Associate Professor BERGEIM, Assistant Professor COLE.

PHYSIOLOGY

Professors: WAKERLIN¹ (Head of the Department), BACHEM, GELLHORN.

Associate Professors: REED.

Associates: SMITH.

Instructors: INGRAHAM, STRUCK.

Assistants: KLEIN.

Required Courses

SECOND YEAR

- 21-22. *Human Physiology*.—The functions of the several tissues and organs, and the correlation and regulation of their activities in the human organism. Lectures, conferences, demonstrations, 3, I, II; laboratory. 4, I, 5½, II. *Prerequisite*: Physiological Chemistry 11 and 12. Professor WAKERLIN and staff.

Courses for Graduate Students

101. *Research in Physiology*.—One to three units. Professor WAKERLIN, Professor GELLHORN, Associate Professor REED.
102. *Research in Biophysics*.—One to three units. Professor BACHEM.
103. *Seminar in Selected Fields*.—One unit per semester. Professors WAKERLIN, BACHEM, and GELLHORN, Associate Professor REED.
104. *Current Literature Seminar*.—One-half unit per semester. Required of all graduate students in physiology. Professors WAKERLIN, BACHEM, and GELLHORN, Associate Professor REED.

Elective Courses

51. *Special Advanced Physiology*.—This course is designed to meet the needs of students desiring advanced, detailed knowledge of a limited field, and in each semester a different field is selected and announced in advance. Subjects covered are: endocrinology, heart, gastro-intestinal tract, neurophysiology, muscle, general metabolism and nutrition, and growth. (Topic for the first semester of 1937-38: Growth.) Lecture, 1; laboratory, 1 three-hour period. I. Professor WAKERLIN, Professor GELLHORN, Associate Professor REED.

PROSTHETIC DENTISTRY

CROWNS AND FIXED PARTIAL DENTURES

Professors: DITTMAR (Head of the Department), TYLMAN.

Associates: JENTZSCH.

Instructors: BRAY, BAZOLA, PHILLIPS.

Assistants: LARSEN.

¹Beginning September 1, 1937.

Required Courses

SECOND YEAR

21. *Dental Materials*.—The course establishes a basis for the use of dental materials and for their manipulation. Lecture, 1; demonstration and laboratory, 1 two-hour period. *I.* Professor TYLMAN.
22. *Technic*.—Construction of inlay, three-quarter and crown retainers; pontics, fixed and semi-fixed partial dentures. Lecture, 1; laboratory, 2 three-hour periods. *II. Prerequisite:* Operative Dentistry 11-12. Professor TYLMAN, Dr. JENTZSCH, Dr. BAZOLA, Dr. BRAY, Dr. LARSEN.
24. *Ceramics*.—History, physical characteristics, and application of porcelain; preparations; construction of complete crowns and pontics; stains. Laboratory, 1 three-hour period. *II.* Professor TYLMAN, Dr. JENTZSCH, Dr. BRAY, Dr. LARSEN.

THIRD YEAR

31. *Technic*.—Compound types of fixed and semi-fixed partial dentures. Lecture or quiz, 1; laboratory, 2 three-and-a-half-hour periods. *I. Prerequisite:* Crowns and Fixed Partial Dentures 22 and 24. Professor TYLMAN, Dr. JENTZSCH, Dr. BAZOLA, Dr. BRAY, Dr. LARSEN.
36. *Clinical Practice*.—Simple types of crowns and partial dentures; diagnosis. Conferences and demonstrations to groups. Lecture, 1, bi-weekly. *II. Prerequisite:* Crowns and Fixed Partial Dentures 31. Professors DITTMAR and TYLMAN, Dr. JENTZSCH, Dr. BAZOLA, Dr. BRAY, Dr. PHILLIPS, Dr. LARSEN.

FOURTH YEAR

- 41-42. *Diagnosis*.—Diagnosis and treatment of more difficult clinical cases. Prosthetic treatment of facial and oral defects. Lectures and demonstrations, 1, bi-weekly. *I, II. Prerequisite:* Crowns and Fixed Partial Dentures 36. Professors DITTMAR and TYLMAN.
- 45-46. *Clinical Practice*.—Diagnosis; complex types of fixed and semi-fixed partial dentures, obturators; porcelain restorations. Conferences and demonstrations. *I, II. Prerequisite:* Crowns and Fixed Partial Dentures 36. Professors DITTMAR and TYLMAN, Dr. JENTZSCH, Dr. BAZOLA, Dr. BRAY, Dr. PHILLIPS, Dr. LARSEN.

Elective Courses

51. *Dental Materials*.—A study of the chemical and physical properties of the materials used in dentistry. Lecture, 1; laboratory, 1 three-hour period. *I.* Professor TYLMAN.

Special Courses for Dentists

61. *Dental Ceramics*.—Instrumentation and a review of various types of porcelain jacket crown preparations. An intensive study of the manipulation and properties of dental porcelains and stains. Clinical procedures involving the construction of porcelain veneer crowns. Fee for one month, \$50. Professor TYLMAN.
62. *Crowns and Fixed Partial Dentures*.—The principles underlying the preparation and construction of bridge retainers, pontics, and connectors. An analysis of clinical data in relation to proper diagnosis, classification, and indications of various types of fixed restorations. A correlation of the manipulation and properties of the various materials used in this course. Fee for one month, \$50. Professor TYLMAN.

FULL DENTURES AND REMOVABLE PARTIAL DENTURES

Professors: KELLOGG, KUBACKI.

Instructors: HATTENHAUER.

Assistants: KING, HOGAN.

Required Courses

FIRST YEAR

11-12. *Technic*.—Partial denture construction. Lecture, 1; laboratory, 1 two-hour period. *I, II*. Professors KELLOGG and KUBACKI, and assistants.

SECOND YEAR

21-22. *Technic*.—Partial and full denture construction. Lecture, 1; *I, II*. Laboratory, 1 three-hour period, *I*; 2 two-and-a-half-hour periods, *II*. *Prerequisite*: Technic 11-12. Professors KELLOGG and KUBACKI, and assistants.

THIRD YEAR

35-36. *Clinical Practice*.—Partial and full dentures. Conferences and demonstrations to groups. *I, II*. Lecture, 1, bi-weekly. *II*. *Prerequisite*: Technic 21-22. Professors DITTMAR, KELLOGG, and KUBACKI, and assistants.

FOURTH YEAR

45-46. *Clinical Practice*.—Partial and full denture construction. Lecture, 1, bi-weekly. *I, II*. *Prerequisite*: Clinical Practice 35-36. Professors DITTMAR, KELLOGG, and KUBACKI, and assistants.

Special Courses for Dentists

61. *Denture Prosthesis*.—The complete construction of full dentures, embracing theory and methods related to various clinical types. Methods of securing correct jaw relations; types of faces and their esthetic relation to the selection of teeth. The construction of at least one practical case in one of the newer resinous materials. Fee for one month, \$50. Professors KELLOGG and KUBACKI.
62. *Partial Dentures*.—Theory and construction of partial dentures; mouth and tooth preparation; theory of clasp construction; palatal arches and lingual bars; one piece and assembled castings; effects of applied stress and occlusion. The construction of a practical case. Fee for one month, \$50. Professors KUBACKI and KELLOGG.

ROENTGENOLOGY

Professors: HARTUNG, BACHEM.

Instructors: FAUST.

Technicians: ANDERSON.

Required Courses

THIRD YEAR

1. *Roentgenology*.—History and theory. Lectures, 1 (2 weeks). *I*. Professor BACHEM.
- 3-4. *Roentgenology*.—Technic and clinical practice. Demonstrations and conferences. Students assigned in groups. 1 two-hour period. *I, II*. Miss FAUST, Miss ANDERSON.

PROVISIONAL SUMMARY OF CLOCK HOURS

Subjects	Didactic		Laboratory and Clinical		Total
	1st sem.	2nd sem.	1st sem.	2nd sem.	
FIRST YEAR					
Anatomy.....	32	32	96	96	256
Dental Anatomy.....	16	16	48	48	128
Dental Histology.....	..	32	..	64	96
Dentures, Removable, Partial.....	16	16	32	32	96
Histology.....	32	..	64	..	96
History of Medicine and Dentistry.....	16	16	..	..	32
Neurology.....	..	16	..	16	32
Physiological Chemistry.....	32	32	56	56	176
<i>Total</i>	144	160	296	312	912
SECOND YEAR					
Bacteriology.....	48	..	96	..	144
Crowns and Fixed Dentures.....	..	16	..	144	160
Dental Materials.....	16	..	32	..	48
Dentistry and Society.....	..	16	..	..	16
Dentures, Removable, Partial and Full.....	16	16	48	80	160
History of Medicine and Dentistry.....	16	..	..	..	16
Operative Dentistry.....	16	16	96	48	176
Physiology.....	48	48	64	88	248
Therapeutics.....	..	16	..	48	64
Metallurgy.....	..	16	..	32	48
<i>Total</i>	160	144	336	440	1,080
	Didactic		Laboratory	Clinic	Total
THIRD YEAR					
Anaesthetics.....	6	..	..	..	6
Clinical Pediatrics.....	..	..	..	32	32
Crowns and Fixed Dentures.....	8	..	..	163	171
Crowns and Fixed Dentures, Technic.....	16	112	..	..	128
Dentistry and Society.....	16	..	..	..	16
Dentures, Removable.....	8	..	..	163	171
Dermatology.....	8	..	..	8	16
Diagnosis.....	..	..	..	9	9
Extraction Clinic.....	..	..	..	9	9
Fundamentals of Occlusion.....	16	..	..	..	16
Hygiene and Public Health.....	16	..	..	..	16
Materia Medica.....	32	..	..	..	32
Medicine.....	32	..	..	..	32
Operative Dentistry.....	32	..	..	163	195
Oral Pathology.....	32	48	..	..	80
Orthodontia.....	16	64	..	..	80
Pathology.....	48	96	..	..	144
Pharmacodynamics.....	..	32	..	..	32
Roentgenology.....	10	4	..	..	14
Therapeutics.....	32	..	..	163	195
<i>Total</i>	328	356	710	..	1,394
FOURTH YEAR					
Children's Clinic.....	6*	..	..	66†	72
Crowns and Fixed Dentures.....	16	..	..	172	188
Dentures, Removable.....	16	..	..	172	188
Diagnosis.....	..	..	..	32	32
Elective.....	16	..	..	48	64
Extraction Clinic.....	..	..	..	48	48
Jurisprudence.....	6	..	..	..	6
Medicine.....	32	..	..	32	64
Operative Dentistry.....	16	..	..	172	188
Oral Surgery.....	32	..	..	128	160
Orthodontia.....	32	..	..	64	96
Seminar.....	32	..	..	..	32
Social Problems.....	16	..	..	..	16
Therapeutics.....	..	..	..	172	172
Therapeutics, Didactic.....	16	32	..	..	48
<i>Total</i>	236	32	1,106	..	1,374

*Not offered in 1937-38.

†Only 36 hours in 1937-38.

REGISTER OF STUDENTS, 1936-37

Fourth-Year Class

Fox, Henry, B.S., Illinois
 Friedlander, Jack, B.S., Illinois
 Goldstein, Jacob Martin, B.S., Illinois
 Greenberg, Robert Arthur, B.S., Illinois
 Gronner, Curt Joseph, B.S., Illinois
 Hoffman, Murray Mitchell, B.S., Illinois
 Justus, Arthur Bernard, Illinois
 Lane, Edgar Frederick, Illinois
 Leventyn, Harry George, B.S., Illinois
 Littig, John James, B.S., Illinois
 Lynch, James Norman, B.S., Illinois
 Margulies, Ralph, B.S., Illinois

Melcher, Erwin Robert, B.S., Illinois
 Mintz, Henry, B.S., Illinois
 Motew, Max, B.S., Illinois
 Nix, Donald Frank, B.S., Illinois
 Riedel, Lambertus Stegeman, Illinois
 Ross, Edwin Jack, Illinois
 Ruggieri, Caesar Richard, B.S., Illinois
 Scheim, Rudolph, B.S., Illinois
 Siniarski, Casimir John, Illinois
 Wenthe, Henry Lewis, B.S., Illinois
 Winder, Raymond Aubrey, B.S., Illinois

Third-Year Class

Alpern, Elliott William, B.S., Illinois
 Bahador, Massis Armen, B.S., Armenia
 Berk, Dayton Belaroue, Illinois
 Birn, Nathan, Illinois
 Bostian, Paul, A.B., Illinois
 Carter, Russell Lawrence, B.S., Illinois
 Cohen, Andrew B., B.S., Illinois
 Coven, Jesse Herbert, A.B., B.S., Illinois
 Emanuelson, John Edward, B.S., Illinois
 Engel, Milton Baer, Illinois
 Erlitz, Perry, Illinois
 Finley, Herbert, Illinois
 Flachner, Stanley J., A.B., B.S., Illinois
 Frey, Glen Everett, Illinois
 Gechman, Paul, B.S., Illinois
 Gibbs, William Joseph, Illinois
 Griffo, Salvatore, Illinois
 Hoeksema, Walter, Illinois
 Horowitz, Elias, B.S., Illinois
 Karczewski, Harry Alex, B.S., Illinois
 Klein, Arthur Deo, Jr., B.S., Illinois
 Knoll, Nathan Sidney, B.S., Illinois

Kwapisz, Henry John, B.S., Illinois
 Leib, Henry Harold, B.S., Illinois
 Lesko, Edward James, B.S., Illinois
 Levine, Louis, A.B., Illinois
 Mortensen, Alfred Nelson, Illinois
 Ragan, Edward Harry, B.S., Illinois
 Rosenbush, Joseph James, A.B., B.S., New York
 Rubin, Robert Roy, B.S., Illinois
 Rueter, Donald Henry, B.S., Illinois
 Schneider, Clarence, B.S., New York
 Shapiro, Isadore M., B.S., M.D., Illinois
 Spector, Daniel H., Illinois
 Spodak, Harry, B.S., Illinois
 Tanner, Harvey Allen, B.S., Illinois
 Weingarten, Morris, Illinois
 Werch, Howard, B.S., Illinois
 Wesoke, Philip, B.S., Illinois
 Wolavka, Charles, Illinois
 Wunderlich, Edward Herman, Illinois
 Yarchoan, Zachary, B.S., New York
 Ziment, Jack, B.S., New Jersey

Second-Year Class

Block, Alfred, A.B., New York
 Bond, Stewart Leroy, Illinois
 Borden, John Victor, Illinois
 Brookstra, Marvin Everhardt, Illinois
 Donshik, Alexander, New York
 Eigen, Morris, New York
 Feinstein, Nathan Haynes, Illinois
 Fernhoff, Maurice Aaron, A.B., Illinois
 Goldschein, Irving, Illinois
 Goodman, Jack William, Illinois
 Gurian, Bernard, Illinois
 Hillebrand, Richard John, Illinois
 Holic, Richard, Illinois
 Holstein, Irving Julian, Illinois
 Hulsmit, Franklin Frederick, Indiana
 Johannes, Edward William, Jr., Illinois
 Johnson, Franklin Andrew, Illinois
 Kasden, Harold, B.S., Illinois
 Katzen, Leon, Illinois
 Kowalski, Stanley Marvin, Illinois

Lefkow, Leo, A.B., New York
 Litz, Bernard Rozov, Illinois
 Mark, Albert Allen, Illinois
 Massler, Maury, B.S., Illinois
 Moffett, Robert Lee, Illinois
 Moore, Gerald Wallace, Illinois
 Radziejewicz, Henry, A.B., New York
 Sachs, Sidney Howard, New Jersey
 Sandman, Jordan Phillip, A.B., Illinois
 Saylor, James Eugene, Illinois
 Silowitz, Milton Joseph, New York
 Silverstein, Abraham, Illinois
 Smith, Sollie, Illinois
 Sorrentino, Jeremiah Gennaro, B.S., New York
 Stanmeyer, William Robert, Illinois
 Stockton, Roger Kenneth, Illinois
 Sullivan, Edward Joseph, Illinois
 Watkins, Raymond Harrie, A.B., Illinois
 Weiss, Marvin, Illinois
 Wener, Isidore Sol, Illinois

First-Year Class

Arnim, Benjamin F., A.B., Texas
 Belkin, George Herman, A.B., New York
 Berlin, Irving, Illinois
 Bernstein, Morton L., B.S., New York
 Bookstester, David A., B.S., Illinois
 Bosscher, Gerard Paul, Illinois
 Branscum, George Paul, Illinois
 Burnstein, Sol Charles, Illinois
 Buzenski, Edmund, Connecticut
 Caprow, Peter Gordon, B.S., Illinois
 Cohen, Herman J., New York
 Deutschman, Vernon Thomas, Illinois
 Dittmar, George Walter, Jr., A.B., Illinois
 Dobzinsky, Michael, Illinois
 Dubrosky, Philip, Illinois

Falkoff, Benjamin, New York
 Frenchman, Morton Jerome, New Jersey
 Gannon, Franklin Elvin, Illinois
 Goldsmith, Milton, Illinois
 Goode, Louis A., Illinois
 Gray, William M., Illinois
 Grissom, Wayne Stanley, Illinois
 Hauptman, Jack, Illinois
 Hock, Lester R., Illinois
 Hopp, Samuel Leonard, Illinois
 Kessler, Simon, New York
 King, Robert Woodrow, Illinois
 Knedlik, George L., Illinois
 Korf, Stanley Robert, Illinois
 Kowal, Philip, New York

Kruchkow, Norman, B.S., New York
 Kurti, Bert, New Jersey
 Levin, Samuel S., Illinois
 Lipson, Reuben, New York
 Lome, Anita, Illinois
 Macaluso, Alfred Charles, Illinois
 Marc, Arthur Lowell, B.S., Illinois
 Maurice, Charles George, Illinois
 Nelson, Frank A., Illinois
 Nowak, Mitchell Joseph, Illinois
 Patella, John, New York
 Puklin, Marvin Morton, Connecticut
 Rabinovitz, Harry D., Illinois
 Rosen, Jack, Illinois

Rubens, Philip, Illinois
 Schnitman, Henry, New York
 Seifer, Henry Harold, Illinois
 Sereda, Walter Jacob, Illinois
 Shaffner, Theodore Weil, Illinois
 Skudowitz, Daniel Richard, New York
 Steingold, Herman, Illinois
 Tracy, Charles Samuel, Illinois
 Warner, Muriel Estelle, Illinois
 Washburn, Kenneth Clinton, North Dakota
 Wilde, Norbert John, Illinois
 Wojahn, William Ted, Illinois
 Wolf, Edward R., Illinois

DEGREES CONFERRED, 1936

Degree of Doctor of Dental Surgery

Conferred in June, 1936

JULIUS BERMAN, B.S.
 FRANK DONALD BERNARD, B.S.
 ROBERT ROWLEY BOWMAN, B.S.
 JAMES HARRY CAUSER, JR., A.B.
 JACOB COHEN, B.S.
 ROBERT DANE CURTIS, B.S., with Honors
 MANUAL DVORIN
 JACK EHRLICH, B.S.
 MAURICE ROBERT FALSTEIN
 ANTHONY LUKE GESSAY, B.S.
 EDWARD JOHN GOGGIN, B.S.

AMBROSE GOLDBERG
 PHILIP TOBE GOLDBERG, B.S.
 GORDON DUNNINGTON HEIPLE
 DEWEY DEWITT JACKSON, B.S.
 ANTHONY LOUIS PETERS, B.S.
 JOSEPH ISADORE SAPOSNIK, B.S.
 BENJAMIN BERNARD SHAPIRO, B.S.
 KENNETH PALMER SHARPE, B.S.
 SIMPSON TANNENBAUM, B.S.
 ISRAEL S. WAGMAN, B.S.
 PHILIP ALLAN WINSTON, B.S.

Conferred in October, 1936

BEODA JOHN FREY, B.S.

JAMES CRAIG GRETHOR, B.S.

Degree of Bachelor of Science in Dentistry

Conferred in February, 1936

CAESAR RICHARD RUGGIERI

Conferred in June, 1936

ELLIOTT WILLIAM ALPERN
 MASSIS ARMEN BAHADOR
 RUSSELL LAWRENCE CARTER
 ANDREW B. COHEN
 JESSE HERBERT COVEN
 JOHN EDWARD EMANUELSON
 STANLEY J. FLACHNER, A.B.
 PAUL GECHMAN
 JACOB MARTIN GOLDSTEIN
 ELIAS HOROWITZ
 HARRY ALEX KARCEWSKI
 ARTHUR DEO KLEIN, JR.
 HENRY JOHN KWAPISZ
 HENRY HAROLD LEIB

EDWARD JAMES LESKO
 HARRY GEORGE LEVENTYN
 EDWARD HARRY RAGAN
 JOSEPH JAMES ROSENBUSH
 ROBERT ROY RUBIN
 DONALD HENRY RUETER
 CLARENCE SCHNEIDER
 HARRY SPODAK
 HENRY LEWIS WENTE
 HOWARD L. S. WERCH
 PHILIP WESKE
 RAYMOND AUBREY WINDER
 JACK ZIMENT

Conferred in October, 1936

HARVEY A. TANNER

ALUMNI ASSOCIATION OF THE COLLEGE OF DENTISTRY

1937

Officers

HENRY J. DROBA, '28, *President*
 HAROLD J. NOYES, '28, *President-Elect*
 JAMES W. STUBBS, '18, *Vice-President*

EARL H. CRAWSHAW, '24, *Secretary*
 DONALD L. McELROY, '32, *Treasurer*

Executive Committee

PETER WLODKOWSKI, '30
ERNEST MYER, '29
FRED BAZOLA, '28

ROSCOE W. UPP, '16
FRANCIS L. CONDREN, '19
EDWARD G. ROBBINS, '24

Advisory Council

JOHN LA DUE, '05
E. BYRON KELLY, '02
EDWARD J. KREJCI, '15
ROBERT H. WHITFIELD, '27
DAVID A. FRANKEL, '07

JAMES D. MERSHIMER, '17
BERNARD D. FRIEDMAN, '12
EDWARD J. RYAN, '21
W. HOWARD KUBACKI, '17
R. G. KESEL, '26

UNIVERSITY OF ILLINOIS
THE GRADUATE SCHOOL

GRADUATE COURSES IN MEDICINE
AND DENTISTRY

DEPARTMENTS

Anatomy; Dental Histology; Dental Therapeutics; Dermatology; Juvenile Behavior; Laryngology, Rhinology, and Otology; Medicine; Metallurgy; Neurology and Neurological Surgery; Obstetrics and Gynecology; Ophthalmology; Oral Surgery; Orthodontia; Orthopaedics; Pathology and Bacteriology; Pediatrics; Pharmacology; Physiological Chemistry; Physiology; Psychiatry; Surgery.

Announcement of
Summer Session of 1937, June 12 to September 11,
and Session of 1937-38

GRADUATE SCHOOL CALENDAR
(CHICAGO)

Summer Session

1937

June 12 and 14, Saturday and Monday . . . Registration days.

June 14, Monday Summer Session begun.

Sept. 11, Saturday Summer Session ended.

First Semester

Sept. 13, Monday Last day for candidates for masters' degrees in
October to file applications for degrees and to
deposit theses.

Sept. 29-30, Wednesday-Thursday Registration days.

Nov. 25, Thursday Thanksgiving Day.

Dec. 18, Saturday, 6 P.M. Holiday recess begun.

1938

Jan. 3, Monday, 8 A.M. Instruction resumed.

Jan. 10, Monday Last day for filing applications for masters'
degrees to be conferred in February.

Jan. 10, Monday Last day for candidates for doctors' degrees in
February to deposit theses.

Jan. 24, Monday Last day for candidates for masters' degrees in
February to deposit theses.

Second Semester

Feb. 9-10, Wednesday-Thursday Registration days.

Mar. 24, Thursday Last day for filing applications for masters
degrees to be conferred in June.

April 14, Thursday, 6 P.M. Easter recess begun.

April 18, Monday, 8 A.M. Instruction resumed.

May 9, Monday Last day for candidates for doctors' degrees in
June to deposit theses.

May 23, Monday Last day for candidates for masters' degrees in
June to deposit theses.

June 10, Friday Annual Commencement.

EXECUTIVE FACULTY OF THE GRADUATE SCHOOL¹

1936-37

ARTHUR CUTTS WILLARD, B.S., D.Eng., LL.D., *President of the University*

ROBERT DANIEL CARMICHAEL, Ph.D., *Professor of Mathematics and Dean of the Graduate School*
CLARENCE ARTHUR BERDAHL, Ph.D., *Professor of Political Science*
HARDY CROSS, A.B., B.S., M.C.E., D.Sc., *Professor of Structural Engineering*
DAVID JOHN DAVIS, M.D., Ph.D., *Professor of Pathology and Dean of the College of Medicine*
COLEMAN ROBERTS GRIFFITH, Ph.D., *Professor of Education*
HARRY STUART VEDDER JONES, Ph.D., *Professor of English*
SIMON LITMAN, Dr.Jr.Pub. et Rer.Cam., *Professor of Economics*
FRANCIS WHEELER LOOMIS, Ph.D., *Professor of Physics*
HERBERT FISHER MOORE, M.E., M.M.E., D.Sc., *Research Professor of Engineering Materials*
WILLIAM ABBOTT OLDFATHER, Ph.D., LL.D., *Professor of the Classics*
WILLIAM SPENCE ROBERTSON, Ph.D., *Professor of History*
WORTH HUFF RODEBUSH, Ph.D., *Professor of Physical Chemistry*
HENRY PERLY RUSK, M.S., *Professor of Cattle Husbandry*
HIRAM THOMPSON SCOVILL, A.B., C.P.A., *Professor of Accountancy*
RAYMOND STRATTON SMITH, Ph.D., *Professor of Soil Physics*

STANDING COMMITTEE ON GRADUATE WORK IN MEDICINE AND DENTISTRY

DAVID JOHN DAVIS, M.D., Ph.D., *Chairman*
FREDERICK BOGUE NOYES, A.B., D.D.S., D.Sc.
HUGH ALISTER MCGUIGAN, Ph.D., M.D.
FREDERICK HOWARD FALLS, M.S., M.D.
WILLIAM HENRY WELKER, A.C., Ph.D., *Secretary*

THE TEACHING FACULTY IN MEDICINE AND DENTISTRY²

1936-37

DAVID JOHN DAVIS, M.D., Ph.D., *Dean of the College of Medicine, Professor of Pathology, Head of the Department of Pathology, Bacteriology, and Public Health*
WILLIAM HENRY WELKER, A.C., Ph.D., *Professor of Physiological Chemistry and Head of the Department*
HUGH ALISTER MCGUIGAN, Ph.D., M.D., *Professor of Pharmacology, Materia Medica, and Therapeutics, and Head of the Department*
OTTO FREDERIC KAMPMEIER, Ph.D., M.D., *Professor of Anatomy and Head of the Department*
FREDERICK BROWN MOOREHEAD, D.D.S., M.D., M.S., *Professor of Oral Surgery and Head of the Department of Oral and Plastic Surgery and Oral Pathology*
WILLIAM F. PETERSEN, B.S., M.D., *Professor of Pathology*
FREDERICK BOGUE NOYES, A.B., D.D.S., D.Sc., *Dean of the College of Dentistry, Professor of Orthodontia, Head of the Department, and Director of the Children's Clinic*

¹The administration of the Graduate School is conducted by the Executive Faculty, consisting of the Dean of the Graduate School, three members elected by the Teaching Faculty, and ten additional members appointed by the President of the University after consultation with the Dean and the elected members.

²The Teaching Faculty includes all those who at any time give courses of strictly graduate character. Such courses are accepted for major credit and are numbered one hundred and upwards. For the present such courses are offered by the above faculty.

- OLAF BERGEIM, Ph.D., *Associate Professor of Physiological Chemistry*
ALBERT BACHEM, Ph.D., *Professor of Biophysics*
FREDERICK HOWARD FALLS, M.S., M.D., *Professor of Obstetrics and Gynecology, and Head of the Department*
JULIUS HAYES HESS, M.D., *Professor of Pediatrics and Head of the Department*
FRANCIS EUGENE SENEAR, B.S., M.D., *Professor of Dermatology and Head of the Department*
LLOYD ARNOLD, A.M., M.D., *Professor of Bacteriology and Public Health*
WALTER JOHN RICHARD CAMP, M.D., Ph.D., *Professor of Pharmacology, Materia Medica, and Therapeutics*
PAUL LOUIS SCHROEDER, B.S., M.D., *Professor of Criminology, Social Hygiene, and Medical Jurisprudence, Head of the Department, and Director of the Institute for Juvenile Research*
HAROLD DOUGLAS SINGER, M.D., *Professor of Psychiatry, Head of the Department, and Director of the Psychiatric Institute*
HENRY BASCOM THOMAS, B.S., M.D., *Professor of Orthopaedics, Head of the Department, and Director of the Illinois Surgical Institute for Children*
GEORGE BORIS HASSIN, M.D., *Professor of Neurology*
ANDREW WILSON BROWN, Ph.D., *Associate Professor of Criminology, Social Hygiene, and Medical Jurisprudence*
RICHARD HERMANN JAFFÉ, M.S., M.D., *Professor of Pathology*
ISAAC SCHOUR, D.D.S., Ph.D., *Professor of Histology*
ROBERT WOOD KEETON, M.S., M.D., *Professor of Medicine and Head of the Department*
ERNST GELLHORN, M.D., Ph.D., *Professor of Physiology and Physiologist in the Department of Psychiatry*
ISADORE PILOT, B.S., M.D., *Associate Professor of Pathology and of Medicine*
HENRY GEORGE PONCHER, B.S., M.D., *Associate Professor of Pediatrics*
MRS. CARROLL LAFLEUR BIRCH, M.S., M.D., *Assistant Professor of Medicine*
ARTHUR GIDEON COLE, Ph.D., *Assistant Professor of Physiological Chemistry*
ERIC OLDBERG, M.D., Ph.D., *Professor of Neurology and Neurological Surgery, and Head of the Department*
GERHARDT VON BONIN, M.D., *Associate Professor of Anatomy*
CHARLES BERNARD PUESTOW, M.D., Ph.D., *Assistant Professor of Surgery*
CARLOS ISAAC REED, Ph.D., *Associate Professor of Physiology*
ALLAN GIBSON BRODIE, D.D.S., M.S., *Professor of Orthodontia*
RUSSELL DORR HERROLD, B.S., M.D., *Associate Professor of Surgery*
GÉZA DE TAKATS, M.D., M.Surg., *Associate Professor of Surgery*
WARREN HENRY COLE, B.S., M.D., *Professor of Surgery and Head of the Department*
ROBERT GEORGE KESEL, D.D.S., M.S., *Assistant Professor of Dental Pathology and Therapeutics*
FRANCIS LOEFFLER LEDERER, B.S., M.D., *Professor of Laryngology, Rhinology, and Otolology, and Head of the Department*

GRADUATE WORK IN MEDICINE AND DENTISTRY

Admission

Admission to the Graduate School may be granted to graduates of institutions whose requirements for the bachelor's degree are substantially equivalent to those of the University of Illinois, and to applicants from other institutions approved by the Executive Faculty, as hereinafter provided. *Admission to the Graduate School does not, however, imply admission to candidacy for an advanced degree, and gives no right or claim to be so admitted. A mere accumulation of "credits" or "grades" is not sufficient.*

Admission to graduate courses may be granted only to those who have had the requisite undergraduate work in those courses or departments. But a student of mature age who satisfies the Director and the Department concerned of his ability to pursue graduate work in a given line may be enrolled in particular graduate courses, without reference to a degree, and permitted to carry on such study or investigation under the direction of a department of the University as the department shall recommend and the Dean approve.

Application blanks for admission may be secured from the Secretary of the Committee on Graduate Work in Medicine and Dentistry. Every applicant must submit with his application for admission an official transcript of his college record.

Registration and Program of Study

The following regulations concerning registration and program of studies are laid out primarily for first-year students. Second-year and third-year graduate students fill out their programs irrespective of the unit value of courses, according to their needs, under the advice of their instructors.

Registration.—Each graduate student must register at the beginning of each semester.

The registration of a new student may be accepted at any time provided the student is prepared to take up courses actually under way. Credit towards the fulfillment of the residence requirement dates, however, from the time of registration and not from the beginning of the semester or year in which the student enters. Registration will not be permitted later in the year than April 1, except in the case of students who expect to continue through the summer session, or are returning to complete a year's work which has been interrupted by unavoidable circumstances. *No student is permitted to attend any University course in which he is not registered.*

The first registration, or that on entrance, is permitted only after the student's application for admission to the Graduate School, setting forth his educational attainments, has been duly approved.

Medical Students and Graduate Study.—If at the beginning of the second semester of his second year a student in the College of Medicine, who has been in residence at least one year, and who has completed all of the required courses of the first three semesters and has maintained an average in all work in Medicine of at least 85%, may be permitted to register for one unit which may count for residence for a master's degree. Only students of excellent record will be allowed this privilege.

Members of the third-year and fourth-year classes in the College of Medicine, who have strong scholastic records, and who have the bachelor's degree, may register for one unit of graduate work per semester, substituting it for one medical course and the electives in the junior year and for the electives in the senior year.

Failures.—A graduate student who fails in any course in his major subject cannot secure his degree in the same year in which the failure occurred. No condition examinations are given graduate students.

Students on the Staff.—Assistants and others on the University staff who undertake to do graduate work are permitted to take an amount of work determined by the terms of their employment. Such a student, if required by his engagements to teach more than five classes a week or to have laboratory work or supervision exceeding ten hours a week, may not receive his master's degree at the end of one year, nor his doctor's degree at the end of three.

Residence and Work Done Elsewhere.—Continuous residence and study are required of all members of the Graduate School, unless they are granted leave of absence by the Dean, upon recommendation of the professor in charge of their work, for the purpose of carrying on elsewhere studies or investigations in the line of work for their degrees.

Members of the staff who have done graduate work in approved institutions elsewhere may secure credit not to exceed four units towards the master's degree by passing examinations in that work. They may complete the work for the degree by securing at least four units more while registered in the Graduate School for not less than one academic year.

Withdrawal.—If after registration a graduate student wishes to withdraw from any course or to add other work, he must first secure the necessary papers from the Recorder's Office. If he wishes to withdraw from the University he must get clearance papers at the Recorder's Office.

Master's Degrees

Character of Master's Degree.—The master's degree conferred depends upon the character of the bachelor's degree. The usual practice is that A.M. shall follow A.B., and that M.S. shall follow B.S. However, this practice may be departed from in cases where the undergraduate course of study was of a kind for which some reputable institutions in this country give A.B., while others give B.S.

Amount of Work Required.—Candidates for the degree of Master of Arts or Master of Science are required to do at least one full year's work in residence, including a thesis. By this is meant from four to five unit courses each semester, or their equivalent. A unit course is one which requires ten hours of time a week through one semester, or fifteen hours of time a week through the summer quarter of twelve weeks, irrespective of the mode of distribution of that time in class work, laboratory work, and private study. Four such courses or their equivalent constitute a full *minimum* program for one-semester, and eight such courses, or their equivalent, constitute the *minimum formal* year's work accepted for a master's degree. Only first-rate students are permitted to secure a degree with this minimum program.

Unless otherwise permitted, every student must take each semester at least one course open to graduate students only (courses numbered 100 and upwards).

Undergraduate courses in Medicine in any department are not accepted as applying toward a graduate degree if the major is in that department.

In the first year of his graduate study each student is required to attend a minimum of four formal class, lecture, or laboratory exercises a week. He may not attend more than twelve a week without special permission.

Grades.—Students' work is graded in five classes, A, B, C, D, and E. The last indicates a failure. "D" indicates unsatisfactory, though passable, work.

A student who receives two units of a grade below "B" during his first year of graduate work may not complete the first year of residence by carrying the minimum program of eight units for the master's degree. Three units of a grade below "B" disqualify a student as a candidate for a degree.

A failure or absence from examination in any course may prevent the conferring of the degree; and, as already indicated, failure in any course in the major field precludes the conferring of the degree in the same year.

Majors and Minors.—A candidate for a master's degree may do all his work in one subject, or he may select a major and one minor, or a major and two minors. A major or a minor denotes the field of knowledge of a department, or such part thereof as constitutes a separate and independent division of that field. For a master's degree a major is at least half the work, or a minimum of four units, for one year. Less than one unit may not be counted as satisfying the requirements of a minor without the approval of the department concerned.

Foreign Language.—The ability to use one or more of the modern languages ordinarily studied in the undergraduate curriculum is expected of all candidates for the master's degree, and in some lines of study is required. No student will be permitted to acquire residence toward the second year for the doctorate until he has passed the preliminary examination in at least one of these languages.

Master's Thesis.—Each candidate for a master's degree is required to present a thesis on some subject approved by the professor in charge of his major work and the

Executive Faculty of the Graduate School. Such approval, except in the case of students working for master's degrees in summer sessions only, must be secured and the subject of the thesis filed at the office of the Graduate School not later than the beginning of the second half-year of residence. The requirement of a thesis may be waived, however, upon the recommendation of the head of the department in which the student is doing his major work and the approval of the Dean of the Graduate School, provided application to waive the thesis is made at the time for announcing thesis subjects. A student excused from writing a thesis must replace it with additional courses of instruction.

No one will be excused from writing a thesis unless one-half of his program of studies consists of courses numbered 100 and upwards.

The thesis required from a candidate for a master's degree ordinarily will demand from one to two units of work, and may not exceed three units. The thesis must be typewritten, on "thesis paper,"¹ and the title page must be printed. The thesis in its final form, together with a certificate of approval by the proper officer, must be sent by the professor in charge to the Dean's office at least two weeks before the date on which the degree is to be conferred. No article prepared for another use, or previously published, will be accepted as a thesis. Permission for the publication of the material of a master's thesis should be obtained from the Dean of the Graduate School before such publication is carried out.

Under proper conditions a student may be permitted to complete the last fourth of his work, if devoted to his thesis, under leave of absence for a period not to exceed the equivalent of two semesters. To get such permission the student must have secured proper credit for at least six units; must petition for the privilege; must submit to the Dean an outline of the proposed investigation, approved by the head of his major department; and must submit satisfactory evidence that adequate facilities are available to him at the place where he intends to do the proposed work. Approval on all these points must be obtained one collegiate year before the thesis is due. Immediately following approval the student must register and pay an incidental fee of \$20.00.

A student who has completed all of the residence and course requirements for the master's degree but who is still working on his thesis is required to register for an additional "Thesis" unit of work during the semester or session in which he expects to present himself for the degree. The incidental fee for such registration is \$10.00.

Applications for Degrees.—Each candidate for the degree of Master of Arts or Master of Science shall file an application for the degree on a blank provided for the purpose, to be had at the Secretary's office. For the dates of application and deposition of theses, consult the calendar on page 36.

The Degree of Doctor of Philosophy

Major and Minor Subjects.—A member of the Graduate School who desires to become a candidate for the degree of Doctor of Philosophy is required to pursue a major subject in the department in which his research lies. He is also required to choose one minor subject, or he may choose two. If one minor only is chosen it must be taken in a department of study other than that of the major, and credit for it may be earned by work representing not less than four units, or one-sixth of the total residence required for the doctorate. If two minors are chosen, one must be a subject closely related to the major. With the approval of the adviser it may be a division of the major field of study. The other minor (not less than two units) must, in that case, be taken in a department of study other than that of the major.

Except by special permission of the Dean the preliminary examination in major and minor subjects may not be taken until the minor work has been done.

Method of Computing Residence.—Credit for a full year of graduate work means that the student has during that time devoted all his working time and energy to study of a graduate grade. After the first year of residence credit is not recorded in units, and there is no fixed correspondence between credit and course as in undergraduate work. Thus it is possible for a second-year student to devote all his time to one course and his research; and for a third-year student to devote all his time to his research work alone.

¹No other will be accepted by the Dean. "Instructions for the Preparation of Theses" may be obtained at the Secretary's Office, Room 338, Research Laboratory and Library Building.

Period of Study.—The *minimum* period of study required for securing the degree of Doctor of Philosophy is three years, during which the student is required to devote all his working time to his studies. All three years must be spent in residence at some accredited educational institution, and either the first two or the last one of the three must be spent at the University of Illinois. The degree is conferred, however, not for residence, during a certain period, but for scholarly attainments and power of investigation, as proved by theses and examinations.

Work Done in Other Universities.—Credit for graduate work done in other universities is not "transferred." However, it may be accepted on examination as equivalent to resident work at the University of Illinois, provided the institution in which it was done is of high standing.

Examinations in Languages.—The student will be required to demonstrate his ability to read French and German and other languages needed in his work. (In special cases the Executive Faculty, upon recommendation of the student's adviser, may substitute for either one of the languages usually required some other language which can be shown to be more useful in that student's professional research.) No student will be permitted to acquire residence towards the second year of graduate study until he has passed the examination in at least one of these languages. Both the examination in French and that in German must be passed before the student is admitted to the preliminary examination in his major and minor subjects.

Examinations in Major and Minors.—Towards the end of his second year of study, or by special permission, at the beginning of his third year (not later than October 15), a student who wishes to become a candidate for the degree must submit to a preliminary examination. This examination is intended to test the student's knowledge of the fields of his major and minor subjects of study only. It is partly oral, and may be wholly so.

The student will not be admitted to his preliminary examination until the faculty is satisfied that he has finished substantially the equivalent of two years of graduate work. He must do a full year's graduate work between his preliminary examination and the completion of his work for the doctorate.

Final Examination.—At least two weeks before the time when the degree is conferred, the candidate must submit to a final examination, given by a committee appointed by the Dean. This examination is primarily on the research work of the student, as embodied in his thesis, but is not confined to that. It extends to the whole field of study of the candidate. It will not be confined to the courses which the candidate has attended in the University of Illinois only, if he has done part of the work elsewhere; nor even to the field covered by the courses, specifically taken in this or other universities; but will be so conducted as to determine whether the candidate has a satisfactory grasp of his major subject as a whole, and a general acquaintance with the fields of knowledge represented by his course of study.

The final examination may not be divided. The examination must be taken all at one time though it requires several sessions.

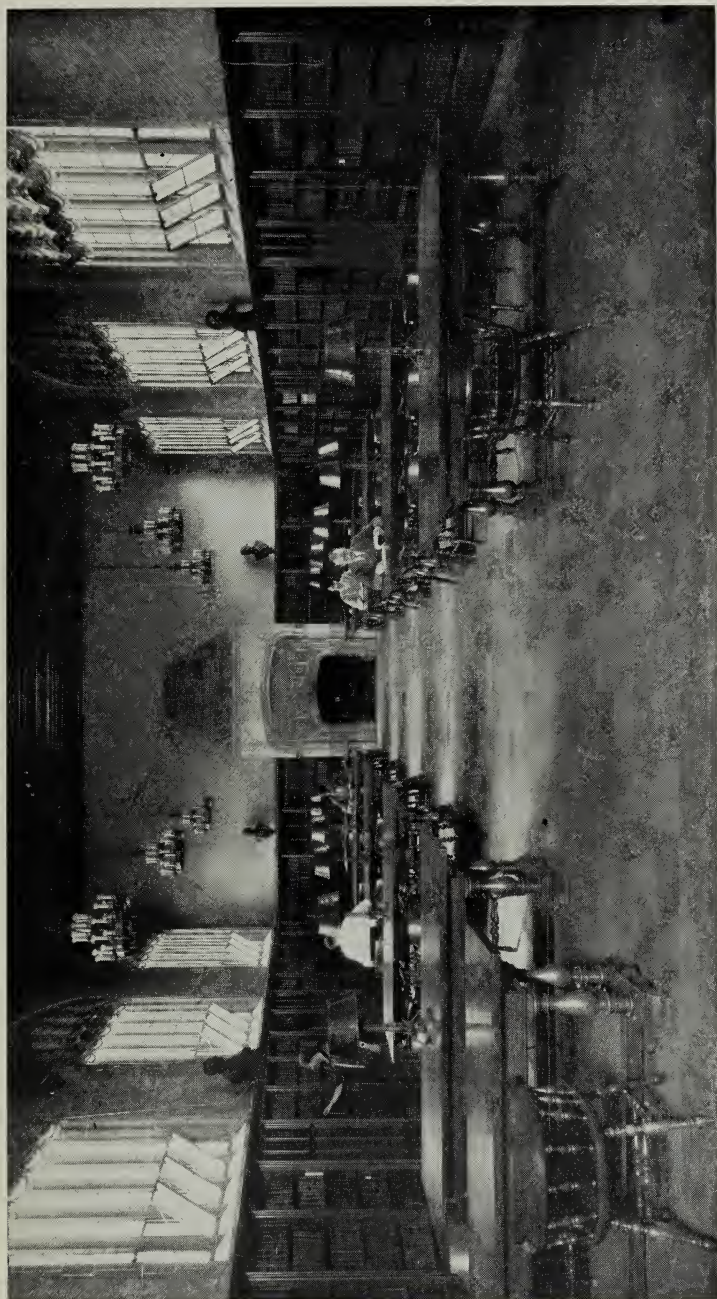
If after having passed his preliminary examination, he fails in the third year of his study to meet the expectations of the professors in charge of his work, or in any way fails to maintain the standard of scholarship and power of research expected of him, he may be refused admission to the final examination.

Other Examinations.—Before the candidate is admitted to the final examination and the defense of his thesis, he may be required to take any other examination, oral or written, that is thought proper by the various departments in which he has studied.

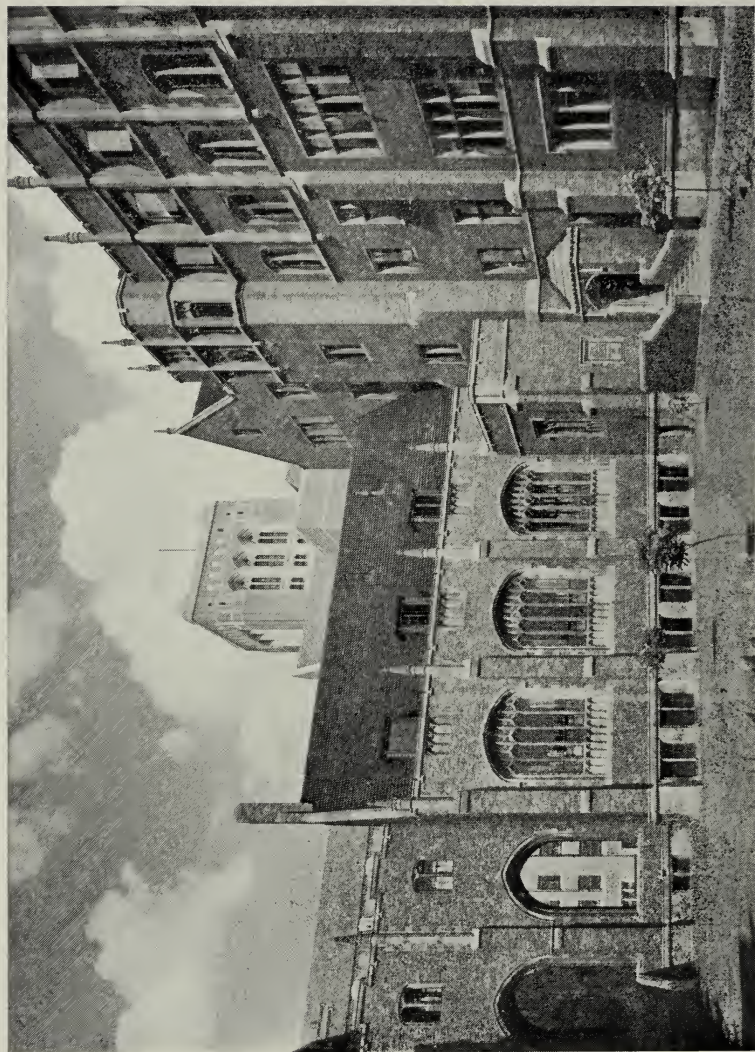
The above examinations are in addition to those in the courses for which the student is registered. These must be taken at times for which they are set in the examination schedule.

Thesis.—The power of independent research must be shown by the production of a thesis on some topic connected with the major subject of study. The candidate is expected to defend his thesis or dissertation before the members of the faculty, or as many of them as may wish to question him about it, in connection with his final examination.

The subject of the thesis should be chosen not later than the end of the second year of residence and must be submitted for formal approval by the faculty not later than six weeks from the beginning of his third year of residence.



MAIN READING ROOM OF THE LIBRARY



LIBRARY AND PASSAGE WAY TO HOSPITAL WITH NEW LABORATORY BUILDING IN BACKGROUND

A typewritten copy of the complete thesis, *on thesis paper*, and in final form must be deposited in the office of the Dean for presentation to the examining committee not later than two weeks prior to the final examination, and not less than four weeks before the time when the degree is conferred. At the same time, the candidate must deposit with the Dean a manuscript of the essential part, or an abstract, or a digest of his thesis, in condition for publication at a cost not to exceed seventy-five dollars (\$75). The manuscript must be sufficient to show the method followed, the evidence used and the conclusions reached in the investigation, and must bear the approval of the department and the Executive Faculty of the Graduate School.

The candidate must pay to the Comptroller before graduation the sum of seventy-five dollars (\$75) out of which the University will print at least one hundred copies of this manuscript for circulation by the University, unless the thesis entire or in abbreviated form is published by the author or is accepted for publication by a standard journal or publisher within a year from the date of graduation. In the latter event, and after one hundred copies have been presented to the University by the writer, the cash deposit shall be returned to him.

The typewritten and printed forms of the thesis must comply with the regulations given in "instructions for the preparation of master's and doctor's theses," copies of which may be obtained at the Secretary's office.

Fees

Except as noted below, graduate students in medicine and dentistry pay fees as follows:

Matriculation fee.....	\$10.00
Incidental fee (summer session).....	25.00
Students not residents of Illinois pay an incidental fee of.....	37.50
Incidental fee (semester).....	35.00
Students not residents of Illinois pay each semester an incidental fee of.....	62.50
Late registration fee.—Students who enter the Graduate School after registration day are charged a late registration fee of.....	5.00
Graduation fee.....	10.00

Laboratory fees are assessed to cover the cost of materials used.

For the graduate course in orthodontia in preparation for the practice of orthodontia as a specialty, the yearly tuition fee is \$600, one-third payable at the beginning of the second semester in February, at which time the course opens, one-third in June at the beginning of summer school, one-third in October at the beginning of the first semester.

All persons on University appointment or on appointment in allied surveys and laboratories in Urbana and the research and educational hospitals in Chicago, eligible for admission to University work, also superintendents, principals, and teachers employed in the public school systems of Illinois and teachers and members of the staff in colleges and universities in this state, when admitted to instruction in the Graduate School during the period of their employment, may be permitted to attend University classes for credit, on condition that they register and pay either the regular incidental fees, or, at their election, fees assessed at \$10.00 per unit. Persons on University appointment at a salary of \$1,600 or less who are registered in the Graduate School are exempt from all fees in courses for graduate credit.

For information concerning the privileges of deferring fees, see page 16 of this circular.

All graduate students who have not matriculated as undergraduates at the University of Illinois pay the matriculation fee on entrance.

All graduate students pay the graduation fee on being recommended for their degrees.

Library

Adequate library facilities are essential to the prosecution of graduate work and research. In the library may be found files of journals, monographs, separates, and standard texts supplying nearly every need.

GRADUATE COURSES IN MEDICINE AND DENTISTRY

ANATOMY

101. *Advanced Anatomy*.—The work may take the direction either of macroscopic or of microscopic anatomy, or of both, according to the student's major problem: in macroscopic anatomy, a detailed dissection of the human body, or any of its parts; in microscopic anatomy (embryology, cytology, histology, etc.), a consideration of morphological changes in the organism which are directly correlated with normal processes, such as reproduction, differentiation, nutrition, growth, variation, regulation, regeneration, activity, secretion, rest, fatigue, senility. (Work in the laboratory for tissue culture in association with Assistant Professor ZECHER). Course designed for students choosing anatomy as a minor, and for students preparing for individual research in anatomy. One to two units. Professor KAMPMEIER, Associate Professor VON BONIN.
103. *Individual Research*.—In embryology, cytology and histology, neurology, anthropology and biometrics, experimental morphology, functional and applied anatomy. One to three units. Professor KAMPMEIER, Associate Professor VON BONIN.

DENTAL HISTOLOGY

106. *Advanced Dental Histology*.—One or two units. Professor SCHOUR.
107. *Research in Microscopic Anatomy (Teeth and Related Tissues)*.—One to three units. Professor SCHOUR.

DENTAL PATHOLOGY AND THERAPEUTICS

101. *Advanced Therapeutics*.—One or two units. Assistant Professor KESEL.
103. *Therapeutic Research*.—One or two units. Assistant Professor KESEL.

DERMATOLOGY

101. *Research in Dermatology*.—One to three units. Professor SENEAR.

JUVENILE BEHAVIOR

101. *Research in Juvenile Behavior*.—One to three units. Professor SCHROEDER.
102. *Advanced Work in Juvenile Behavior*.—One to three units. Professor SCHROEDER.
103. *Special Abilities and Disabilities*.—One or two units. Associate Professor BROWN.
104. *Psychological Tests*.—One or two units. Associate Professor BROWN.
105. *Psychology of Behavior Problems*.—One or two units. Associate Professor BROWN.
106. *Field Work in Criminology*.—One to three units. Professor SCHROEDER.

LARYNGOLOGY, RHINOLOGY, AND OTOTOLOGY

101. *Research in Laryngology, Rhinology, and Otology*.—One to three units. Professor LEDERER.

MEDICINE

101. *Research in Medicine*.—One to three units. Professor KEETON, Assistant Professor BIRCH.

NEUROLOGY AND NEUROLOGICAL SURGERY

101. *Research in Neurology*.—One to three units. Professor HASSIN.
102. *Research in Neurological Surgery*.—One to three units. Professor OLDBERG.

OBSTETRICS AND GYNECOLOGY

101. *Research in Obstetrics and Gynecology*.—One to three units. Professor FALLS.

OPHTHALMOLOGY

101. *Research in Ophthalmology*.—One to three units.

ORAL SURGERY

101. *Pathology of Mouth*.—One or two units. Professor MOOREHEAD.
103. *Oral Surgery*.—One or two units. Professor MOOREHEAD.

ORTHODONTIA

101. *Orthodontia*.—One to three units. Professors NOYES and BRODIE.

ORTHOPAEDICS

101. *Research in Orthopaedics*.—One to four units. Professor THOMAS.

PATHOLOGY AND BACTERIOLOGY

101. *Advanced Pathogenesis*.—One to three units. Professors DAVIS, PETERSEN, ARNOLD, and JAFFÉ, Associate Professor PILOT.
103. *Individual Research*.—One to four units. Professors DAVIS, PETERSEN, ARNOLD, and JAFFÉ, Associate Professor PILOT.

PEDIATRICS

101. *Research in Pediatrics*.—One to three units. Professor HESS, Associate Professor PONCHER.

PHARMACOLOGY

101. *Advanced Pharmacodynamics*.—One to three units. Professors MCGUIGAN and CAMP.
103. *Research in Pharmacodynamics*.—One to three units. Professors MCGUIGAN and CAMP.

PHYSIOLOGICAL CHEMISTRY AND METALLURGY

101. *Advanced Biological Chemistry*.—Biochemical methods of research, biological colloids, enzyme action, and metabolism. One or two units. Professor WELKER, Associate Professor BERGEIM, Assistant Professor COLE.
103. *Biochemical Research*.—One or two units. Professor WELKER, Associate Professor BERGEIM, Assistant Professor COLE.

PHYSIOLOGY

101. *Research in Physiology*.—One to three units. Professor GELLHORN, Associate Professor REED.
102. *Research in Biophysics*.—One to three units. Professor BACHEM.
103. *Seminar in Selected Fields*.—One unit. Professors BACHEM and GELLHORN, Associate Professor REED.
104. *Current Literature Seminar*.—One-half unit. Required of all graduate students in physiology. Professors BACHEM and GELLHORN, Associate Professor REED.

PSYCHIATRY

101. *Research in Psychiatry*.—One to three units. Professor SINGER.

SURGERY

101. *Research in Surgery*.—One to three units. Professor COLE, Associate Professors HERROLD and DE TAKATS, Assistant Professor PUESTOW.

GRADUATE SCHOOL DEGREES CONFERRED, 1936**Degree of Doctor of Philosophy***Conferred in February, 1936***IN PHYSIOLOGY**

HOWARD CHESTER PETERS, B.S., Northwestern University, 1932. A study of factors influencing the energy metabolism of the mammalian heart.

*Conferred in June, 1936***IN BACTERIOLOGY**

MARION WINIFRED HOOD, A.B., Carroll College, 1918; A.M., University of Wisconsin, 1928. The relation between the oral and gastric bacterial flora.

IN MEDICINE

FORD KIMMEL HICK, M.D., M.S., 1931, 1933. Criteria of oxygen want with especial reference to neurocirculatory asthenia.

IN PATHOLOGY

PERRY JULIUS MELNICK, B.S., M.S., M.D., 1927, 1929, 1930. The time factor in the irradiation of malignant tumors.

Degree of Master of Arts*Conferred in February, 1936***IN PSYCHOLOGY**

RAYMOND EDWARD SCHARPEN, A.B., 1932

*Conferred in June, 1936***IN PSYCHOLOGY**

ROBERT CRANE KAMMERER, A.B., 1933

Degree of Master of Science*Conferred in February, 1936***IN BACTERIOLOGY**

HERMAN CHARLES MASON, B.S., University of Chicago, 1932

IN ORTHODONTIA

GERALD THOMAS MILLIETTE, B.S., University of Dayton, 1930; D.D.S., Marquette University, 1931

IN PATHOLOGY

ELMER JOSEPH KOCOUR, B.S., M.D., 1930, 1933

IN PHYSIOLOGY

SOLOMON CARL WERCH, B.S., M.D., 1931, 1934

IN PSYCHIATRY

SAMUEL B. BRODER, A.B., University of Pennsylvania, 1926; M.D., Rush Medical College, 1933

Conferred in June, 1936

IN BACTERIOLOGY

MARIE ANNA HAGELE, B.S., Lewis Institute, 1931

GEORGE MAURICE KALMANSON, B.S., College of the City of New York, 1934

IN DENTAL PATHOLOGY AND THERAPEUTICS

EDGAR HERMAN KRAMP, B.S., D.D.S., 1929, 1931

IN MEDICINE

SAMUEL LIEBMAN, B.S., 1934

IN NEUROPSYCHIATRY

CHESTER WADE, B.S., 1934

IN ORTHODONTIA

BEULAH GRATTAN NELSON, A.B., Northwestern University, 1921; D.D.S., 1930

IN PATHOLOGY

BEN WILLIAM LICHTENSTEIN, B.S., M.D., 1930, 1932

EVERETT JACOB OLENICK, B.S., 1934

IN PHARMACOLOGY

JACOB FRANCIS HAHN, B.S., 1930

IN PHYSIOLOGY

LESTER FRANDS MIKKEL STORM, B.S., Northwestern University, 1933

Conferred in October, 1936

IN ANATOMY

REINO HENDRICK PUUMALA, B.S., M.D., 1931, 1934

IN BACTERIOLOGY

KATHERYN ELIZABETH BUCK, B.S., Purdue University, 1934

CHARLES DAVID SPANGLER, B.S., Armour Institute, 1934

IN PATHOLOGY

ARTHUR BERNARD LEVAN, B.S., 1934

IN PHYSIOLOGY

NATHANIEL GLICKMAN, B.S., University of Chicago, 1934

GRADUATE STUDENTS IN MEDICINE AND DENTISTRY

1936-37

EXPLANATION.—S indicates attendance during the Summer Session; I, during the First Semester; II, during the Second Semester. Degrees are from the University of Illinois unless otherwise noted.

- Allen, Arthur Charles, Chicago.—Pathology. (II.) B.S., College of the City of New York, 1930; M.D., University of California, 1936.
- Asch, George Frederick von, Chicago.—Physiological Chemistry. (S.II.) B.S., 1936.
- Asher, Harry H., Chicago.—Metallurgy. (S.I.) D.D.S., M.S., 1931, 1933.
- Ballard, George Pratt, Chicago.—Bacteriology. (S.) B.S., Northwestern University, 1932.
- Barbakoff, Arthur Louis, Chicago.—Otolaryngology. (I.II.) B.S., 1935.
- Barnett, Harold, Chicago.—Surgery. (II.) B.S., 1936.
- Bartoli, Adolph J., LaSalle.—Physiology. (II.) Baumgartner, Wilbur Whittler, Forest Park.—Pathology. (II.) B.S., University of Chicago, 1933.
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